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Scenario 1 : Installing Lotus Connecti	ons 3.0 - Sma	all Deployment 📾
Abstract		
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Overview		
This scenario describes how to deploy Lotus Connections Connections. This deployment would be typical of a test or	3.0 in a small enviror pilot deployment. Th	ment. This type of deployment involves three machines - LDAP, Database and the WebSphere Application Server, which hosts Lotus is article is designed as an end-to-end guide to deploying Lotus Connections 3.0, including all prerequisites in a step-by-step process.
To access a PDF version of this content, download the Sc	enario1.pdf 🔤.	
Scenario Description		
Summary		
This scenario is designed as an end-to-end guide to deplo software used in this configuration are outlined in the Env	ying Lotus Connecti ironment Hardware a	ons 3.0 in a single server environment where both the cell and node share the same machine. Full system specifications and a list of Ind Software Specifications topic in this article. The following properties describe the environment in more detail.
Operating system Microsoft Windows Server 2008 Enterprise Edition x86-64		
Database Server IBM DB2 9.7 FP2		
User Directory IBM Tivoli Directory Server v6.2		
Plug-ins Supported All plug-ins are supported in this environment.		
WebSphere Topology All applications will run under one Java Virtual Machine. Th	iis means that all app	plications will be installed into the same server instance.
Secure Sockets Layer (SSL) SSL is configured in this scenario; however, SSL communi accessing Lotus Connections, all traffic will not be encrypt authenticated, they are redirected back to standard HTTP	cations are not forced ed with SSL (with the protocol.	d by Lotus Connections. This is the default configuration of Lotus Connections, meaning that unless the user inputs "https" manually when exception of login). When logging in to Lotus Connections, SSL is always used to encrypt user credentials and after the user is
Other Product Integration There is no integration with other IBM products in this scer	ario.	
Mail Integration A Java mail session is used in this scenario.		
Additional Security There are no additional security layers in this deployment.		
Prerequisites Details		
The following section describes the prerequisites, which m exception of the LDAP, which is already configured. As eac are as follows:	ust be completed price h of the prerequisites	or to installing Lotus Connections 3.0. The installation of all these prerequisites is explained in the course of this document, with the s is discussed below, links to fix packs are included as well as the names of each machine used in this deployment scenario. Prerequisites
Installation and configuration of WebSphere Appl	cation Server 7.0 N	letwork Deployment (ND) and IBM HTTP Server
WebSphere Application Server must have the following fix - 7.0.0-WS-WAS-WinX64-FP0000011.pak - 7.0.0-WS-WASDK-WinX64-FP0000011.pak - 7.0.0.11-WS-WAS-IFPM12828 - 7.0.0-WS-WAS-IFPM23410 * - 7.0.0-WS-WASJavaSDK-WinX64-IFPM24384 * - 7.0.0.11-WS-WASJaFPM25931 * - 7.0.0.11-WS-WAS-IFPM25931 *	packs and fixes appli	ed:
IBM HTTP Server must have the following fix packs applie - 7.0.0-WS-IHS-WinX64-FP0000011.pak - 7.0.0.0-WS-WASJavaSDK-WinX64-IFPM24384 *	d:	

IBM HTTP Server plug-ins for WebSphere has the following fix packs applied:

- 7.0.0-WS-PLG-WinX64-FP0000011.pak

- 7.0.0-WS-WASSDK-WinX64-FP0000011.pak - 7.0.0.0-WS-WASJavaSDK-WinX64-IFPM24384 \*

• The screen shots supplied with this guide for applying fixes do not include the fixes followed by an asterisk (\*). However, this list is the definitive list of fixes required for Lotus Connections 3.0 to run correctly in this environment. Hence, all the above listed fixes need to be applied. The screen shots are supplied as a guide on how to do this.

These fix packs can be downloaded from IBM Fix Central at: http://www.ibm.com/support/fixcentral.

In this example, Network Deployment and Node 1 are installed on the same machine.

Purpose	Host Name
Deployment Manager, Node1 and HTTP Server	connections.example.com

Installation and configuration of DB2 Enterprise Edition 9.7

DB2 must have the following fix pack applied: DB2-ntx64-server-9.7.200.358-FP002

DB2 fix packs can be downloaded from this location : <u>http://www-01.ibm.com/support/docview.wss?uid=swg27007053</u>

• Installation and configuration of Tivoli Directory Integrator 7.0

TDI must have the following fix pack applied: 7.0.0-TIV-TDI-FP0005

This fix pack is available at: http://www.ibm.com/support/fixcentral

DB2 and TDI are installed on the same machine:

Purpose	Host Name
Database and TDI	db.example.com

• LDAP Directory: The LDAP server used is IBM Tivoli Directory Server V6.2. The LDAP is called : Idap.example.com

Environment Hardware and Software Specifications

Machine DNS Name	Purpose	os	RAM	СРИ	Hard Drive Size	Software and Versions Installed
connections.example.com	Deployment Manager     WebServer     Application Server     Node     IBM HTTP Server	Windows Server 2008 Enterprise Edition x86-64	8 GB RAM	2 x Intel Xeon X7460 @ 2.66 GHZ	100 GB	<ul> <li>WebSphere Application Server Network Deployment V7.0.0.11</li> <li>IBM HTTP Server V7.0.0.11</li> <li>IBM HTTP Server Plugins for WebSphere V7.0.0.11</li> <li>IBM WebSphere Update Installer V7.0</li> <li>Lotus Connections 3.0</li> </ul>
db.example.com	Database (64-bit)	Windows Server 2008 Enterprise Edition x86-64	8 GB RAM	2 x Intel Xeon X7460 @ 2.66 GHZ	100 GB	IBM DB2 v9.7 FP 2     IBM Tivoli Directory Integrator V7.0     FP 5
Idap.example.com	LDAP Directory Server	Windows Server 2008 Enterprise Edition x86-64	8 GB RAM	2 x Intel Xeon X7460 @ 2.66 GHZ	50 GB	IBM Tivoli Directory Server V6.2

#### **Configuration Diagrams**

The following diagrams demonstrate the topology used in this deployment scenario. The topology below affords both good performance and the opportunity to scale up in the future, if required. It is a solid base for a test or pilot system and is contained on only two machines.

# Overall System Topology

The following topology diagram illustrates a single node cluster of Lotus Connections. In this scenario, the LDAP and database servers communicate with the cell controlled by the Deployment Manager. The Tivoli Directory Integrator server sits between the database and LDAP maintaining the synchronization between both. Lotus Connections is installed onto the Deployment Manager machine and, from here, is pushed out to the nodes in the cell (in this case, the single node below). The data store shown on the right is a shared space accessible from all nodes in the configuration (in this case, the single node). This shared space is actually a directory on the same machine as the cell.

Sitting in front of the entire configuration is the Web server. From here, the end user accesses Lotus Connections 3.0.



# WebSphere Application Server Topology

In the overall system topology diagram above, the relationships between the various components in the deployment is clear. However, this did not illustrate the WebSphere Application Server topology (shown below). In this scenario, there is a single cluster containing a single server on the node below. Within this server, all of the features of Lotus Connections 3.0 are installed.



# **Deployment Considerations**

When planning a deployment of Lotus Connections, there are a number of things to consider. Here is a brief discussion on some of the key points.

#### System Requirements

- Lotus Connections 3.0 is supported only on 64 bit versions of Linux or AIX with the exception of SLES10 31 bit on System Z. While it is supported on 32 bit versions of Windows, it is highly recommended to move to a 64 bit operating system to achieve better performance from the overall system.
- It is recommended to have at least 8 GB RAM on your node machine in this scenario.
- In this scenario, the system hosting WebSphere Application Server and Lotus Connections has a total of 100 GB, approximately 70 GB hard disk space is free on the system after the installation. This is sufficient for
  a test system and a good starting base for a pilot install. When planning the installation, it is important to consider how many users will use the system and how much data each user might generate. The file system

should be big enough to handle this, or else expanded over time to cope with the space requirements

#### **Resource Planning**

While this scenario covers a specific deployment situation, it can be used as a guide to deploying other slightly different topologies. It is possible to customize the number of clusters and applications that are installed into each cluster. Where there are resource constraints, any number of the Lotus Connections applications can be combined onto a cluster.

It is also possible to combine one or more databases onto any number of DB2 instances to achieve the performance required.

#### Future Planning

It is crucial to plan for the future when deploying Lotus Connections. While this configuration is an excellent starting configuration, over time, demands on the system may grow and additional nodes may need to be added to the system. This topology offers this option by allowing additional nodes to be added to the cell, as and when required in the future.

### Integration with Other Products and Single Sign On

While neither product integration or Single Sign On (SSO) are covered in this scenario, you may need to consider the implications of integrating other products with Lotus Connections or SSO between a security product and Lotus Connections when planning your installation.

- Enabling SSO with another IBM product involves exchanging LTPA tokens, sharing realms and users who can access the system, as well as the machines being in close synchronization with each other's system clocks.
- If you plan to deploy a system where a third party security suite, such as SiteMinder, Tivoli Access Manager, or SPNEGO, will be deployed, it is crucial that an LDAP user be configured as a WebSphere Application Server administrator and be specified as the user to connect to WebSphere Application Server during the installation.

#### Security Considerations

• The proxy-config.tpl file allows the proxy to work with self-signed certificates. This is true out-of-the-box, but for improved security, set the value of the unsigned\_ssl\_certificate\_support property to false when your deployment is ready for production. This file can be checked out and edited by following the Configuring the AJAX proxy section of the Lotus Connections product documentation.

## Pre-Installation Tasks

The following prerequisite software must be installed in advance of installing Lotus Connections 3.0. The following sections detail how to achieve this.

Installing WebSphere Application Server 7.0 Network Deployment

Unzip the file that you have downloaded in a directory on your hard disk. Change to the directory and run launchpad.exe. The following panel is displayed:



Click Launch the installation wizard for WebSphere Application Server Network Deployment. The following panel is displayed.



Click Next. The following panel is displayed.



Accept the IBM and non-IBM terms and click Next. The following panel is displayed



If the prerequisites check is successful, click Next. The following panel is displayed.



Leave all the check boxes unselected and click Next. The following panel is displayed



Select an installation directory, preferably not in C:\Program Files, and click Next. The following panel is displayed.



Select Cell as the environment to install, and then click Next. The following panel is displayed.

법 IBM WebSphere Applica	tion Server 7.0
WebSphere software	Enable Administrative Security Choose whether to enable administrative security. To enable security, specify a user name and password to log in to the administrative tools. The administrative user is created in a repository within the Application Server. After installation finishes, you can add more users, groups, or external repositories. Finable administrative security. User name:
	Veen name. wsadmin Password: ******* Confirm password: ******
	See the Information Center for more information about administrative security.
InstallShield	<pre></pre>

Choose a user name and a password for the administrative user of WebSphere Application server and click Next. The following panel is displayed.



Leave the check box unselected and click Next. The following panel is displayed.



Click Next. The following panel is displayed.



Click Finish.

Installing IBM HTTP Server V7.0 and WebSphere Plugins

Unzip the WebSphere Application Server Supplements file in a directory on your hard disk. Go to the IHS subdirectory and run install.exe. The following panel is displayed.

BM 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.
InstallShield	·
	< <u>Back</u> <u>N</u> ext> <u>Cancel</u>

Click Next. The following panel is displayed.



Accept the IBM and non-IBM terms and click Next. The following panel is displayed.



If the prerequisites check is successful, click Next. The following panel is displayed



Select an installation directory, preferably not in C:\Program Files, and click Next. The following panel is displayed.



Leave the default values and click Next. The following panel is displayed.

BM HTTP Server 7.0		<u> </u>
<b>H</b>	rebooting the system.	
15-	Run IBM HTTP Server as a Windows Service	
WebSphere software	☑ Run IBM HTTP Administration as a Windows Service	
	Log on as a local system account	
PAST-	Log on as a specified user account	
	User name:	=
	Administrator	
	Password:	
	Startup type:	
The standard	Automatic	
and a sufficient section	The user account that runs the Windows service must have the following us	ser _
	_rights:	<b></b>
InstallShield		
	< <u>Back</u> <u>N</u> ext> <u>C</u> ar	ncel

Select the two check boxes, select to "Log on as a specified user account," and then enter a user name and a password for that account. Click Next. The following panel is displayed.

법 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 confladmin.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 authentication. User ID: ihsadmin Password:  Confirm Password:  Confirm Password:
installShield	< <u>B</u> ack <u>N</u> ext > <u>C</u> ancel

Select "Create a user ID for IHS administration server authentication," and then select a user name and a password. Click Next. The following panel is displayed.

법 IBM HTTP Server 7.0	
	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.
Pit	✓ Install the IBM HTTP Server Plug-in for IBM WebSphere Application Server
	Web server definition:
	Host name or IP address for the Application Server:
	connections.example.com
le et al I Chiefd	<u>, 1</u>
กระสกอกายน	< Back Next > Cancel

Select "Install the IBM HTTP Server Plug-in for IBM WebSphere Application Server." The two fields are already filled. Leave the defaults and click Next. The following panel is displayed.



Review the installation summary and click Next. The following panel is displayed



Upgrading WebSphere Application Server, HTTP Server and WebSphere Plug-ins to Correct Fix pack Level

Locate the directory where you unzipped the WebSphere Application Server supplements. Go to the UpdateInstaller directory and run install.exe. The following panel is displayed.



Click Next. The following panel is displayed.



Accept the IBM and non-IBM terms and click Next. The following panel is displayed



If the prerequisites check is successful, click Next. The following panel is displayed



Select an installation directory, preferably not in C:\Program Files, and click Next. The following panel is displayed.



Review the installation summary and click Next. The following panel is displayed.



Select the check box "Launch IBM Update installer for WebSphere Software on exit." The following panel is displayed.



Click Next. The following panel is displayed.



The location of the AppServer is already filled in. Click Next. The following panel is displayed.



Select "Install maintenance package" and click Next. The following panel is displayed.

WebSphere Software 7.0.0.0
Maintenance Package Directory Selection
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.
Directory path:
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 WebSphere</u> <u>Application Server</u> webpage for a complete list or by using the <u>WebSphere</u> <u>Maintenance Download wizard</u> to find specific maintenance packages.
Additional information can be found online at the <u>WebSphere Application Server</u> library or <u>WebSphere Application Server information center</u> webpages.
< Back Next > Cancel

Select the directory where you copied the 7.0.0-WS-WAS-WinX64-FP0000011.pak, 7.0.0-WS-WASSDK-WinX64-FP0000011.pak, 7.0.0.11-WS-WAS-IFPM12828.pak, 7.0.0.0-WS-WAS-IFPM23410 \*, 7.0.0.0-WS-WAS-IFPM23410 \*, 7.0.0.0-WS-WAS-IFPM23410 \*, 7.0.0.11-WS-WAS-IFPM23410 \*, 7.0.0.11-WS-WAS-IF



Select the check boxes and click Next. The following panel is displayed.



Review the installation summary and click Next. The following panel is displayed.



Click Relaunch. The following panel is displayed.



From the drop-down list, select the path for the HTTP server and click Next. The following panel is displayed.



Click Next. The following panel is displayed.



Select the path where you downloaded the fix packs, 7.0.0-WS-IHS-WinX64-FP0000011, pak and 7.0.0.0-WS-WASJavaSDK-WinX64-IFPM24384\* and click Next. The following panel is displayed.



Leave the check box selected and click Next. The following panel is displayed.



Review the summary and click Next. The following panel is displayed



Click Relaunch. The following panel is displayed.



From the drop-down list, select the path for the HTTP server plug-ins and click Next. The following panel is displayed.



Select "Install maintenance package" and click Next. The following panel is displayed.

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. Directory path: Z1 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 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 Server</u> information center webpages.		Maintenance Package Directory Selection
Directory path:         Z1         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 Recommended fixes for WebSphere Application Server webpage for a complete list or by using the WebSphere Maintenance Download wizard to find specific maintenance packages.         Additional information can be found online at the WebSphere Application Server library or WebSphere Application Server information center webpages.	ere, 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.
Z1       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 Recommended fixes for WebSphere Application Server webpage for a complete list or by using the WebSphere Maintenance Download wizard to find specific maintenance packages.         Additional information can be found online at the WebSphere Application Server library or WebSphere Application Server information center webpages.		Directory path:
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 WebSphere</u> <u>Application Server</u> webpage for a complete list or by using the <u>WebSphere</u> <u>Maintenance Download wizard</u> to find specific maintenance packages. Additional information can be found online at the <u>WebSphere Application Server</u> <u>library or WebSphere Application Server information center</u> webpages.		Z:1
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</u> for WebSphere <u>Application Server</u> webpage for a complete list or by using the <u>WebSphere</u> <u>Maintenance Download wizard</u> to find specific maintenance packages. Additional information can be found online at the <u>WebSphere Application Server</u> <u>library or WebSphere Application Server information center</u> webpages.		Browse
packages for WebSphere Application Server and all WebSphere Application         Server Feature Packs either by visiting the <u>Recommended fixes for WebSphere</u> Application Server webpage for a complete list or by using the <u>WebSphere</u> Maintenance Download wizard to find specific maintenance packages.         Additional information can be found online at the <u>WebSphere Application Server</u> Ibrary or <u>WebSphere Application Server information center</u> webpages.		The latest maintenance packages are available online. Obtain maintenance
Application Server webpage for a complete list or by using the <u>WebSphere</u> Maintenance Download wizard to find specific maintenance packages. Additional information can be found online at the <u>WebSphere Application Server</u> <u>library or WebSphere Application Server information center</u> webpages.		packages for WebSphere Application Server and all WebSphere Application
Maintenance Download wizard to find specific maintenance packages. Additional information can be found online at the <u>WebSphere Application Server</u> <u>library</u> or <u>WebSphere Application Server information center</u> webpages.		Application Server webpage for a complete list or by using the WebSphere
Additional information can be found online at the <u>WebSphere Application Server</u> library or <u>WebSphere Application Server information center</u> webpages.	-	Maintenance Download wizard to find specific maintenance packages.
library or <u>WebSphere Application Server information center</u> webpages.		Additional information can be found online at the WebSphere Application Server
		library or WebSphere Application Server information center webpages.
		<u> </u>

Select the path where you downloaded the fix packs, 7.0.0-WS-PLG-WinX64-FP0000011.pak, 7.0.0-WS-WASSDK-WinX64-FP0000011.pak and 7.0.0.0-WS-WASJavaSDK-WinX64-IFPM24384\* and click Next. The following panel is displayed.



Click Next. The following panel is displayed.



Click Next. The following panel is displayed.



#### Click Finish

This ends the installation and update of WebSphere Application Server Network Deployment V7.0 and IBM HTTP Server V7.0 to the required level for Lotus Connections 3.0.

Installing of DB2 Enterprise Edition V9.7 Fix pack 2

Run v9.7fp2\_ntx64\_server.exe to unzip the contents. Go to the "SERVER" directory and run setup.exe. The following panel is displayed.



## Click the Install a Product link. The following panel is displayed.



Click Install New. The following panel is displayed.

			IBN
welcome to the DB2 Setup wizard for DB2 Enterprise Serve 5765-F41	er Edition, Versi	on 9.7	
The DB2 Setup wizard will install DB2 Enterprise Server Edition on your compute	. To continue, click N	ext.	
Licensed Materials - Property of IBM Corp. @Convright_IBM Corp. and others_1993_2010. This Program is licensed under	the terms of the lice	nse agreem	ent
accompanying the Program. This license agreement may be either located in a F	rogram directory fol	ler or library	identified as
before using the Program. By using the Program, you agree to these terms. IBI	4 and the IBM logo is	a trademark	cor
registered trademark of International business Machines Corporation in the Unit and all Java-based trademarks are trademarks of Sun Microsystems, Inc. in the	United States, other cou	countries, or bo	or both. US
Government Users Restricted Rights - Use, duplication or disclosure restricted b	y GSA ADP Schedule	Contract wi	th IBM Corp.
		1.1	
	Ne	xt >	Cancel
k Next. The following panel is displayed. DB2 Setup - DB2 Enterprise Server Edition - DB2COPY1 Software License Agreement		xt>	Cancel
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K Next. The following panel is displayed.  DB2 Setup - DB2 Enterprise Server Edition - DB2COPY1  Software License Agreement  Please read the following license agreement carefully.  IMPORTANT: READ CAREFULLY  Two license agreements are presented below.  1. IBM International License Agreement for Evaluation of Program 2. IBM International Program License Agreement If you are obtaining the Program for purposes of productive use (o or buy," or demonstration): By clicking on the "Accept" button be Program License Agreement, without modification.  If you are obtaining the Program for the purpose of evaluation, tes (collectively, an "Evaluation"): By clicking on the "Accept" button International License Agreement for Evaluation of Programs (the '	s ther than evaluatii low, You accept t ting, trial "try or b below, You accep Evaluation Licens	on, testing he IBM Int uy," or den t both (i) t e"), withou	, trial "try ternational monstration the IBM ut

 $\bigcirc$  I accept the terms in the license agreement  $\bigcirc$  I do not accept the terms in the license agreement Print < Back

Next >

Cancel

Accept the license and click Next. The following panel is displayed.

Secup - Db2 Enterpr		
ect the installatio	on type	
• Typical:	Approximately 900 - 1300 MB	
C Compact:	Approximately 800 - 1100 MB	
C Custom:	Approximately 600 - 2000 MB	
Information about th	ne installation type	
The typical setup	o includes basic database server function, database administration tools, and most prefinality.	product
To add features	for application development and other optional functionality later in the setup proce	ess, click
Custom.		
	View Features.	
ield		
ypical" and click <b>Nex</b> t	< Back Next > Cancel t. The following panel is displayed.	Help
ypical" and click <b>Nex</b> 1 Setup - DB2 Enterpris	K. The following panel is displayed. See Server Edition - DB2COPY1	Help
ypical" and click <b>Nex</b> 1 Setup - DB2 Enterpris	K. The following panel is displayed.       se Server Edition - DB2COPY1	Help
ypical" and click Next Setup - DB2 Enterpris Sect the installation	K. The following panel is displayed. se Server Edition - DB2COPY1 n, response file creation, or both	Help
ypical" and click <b>Next</b> setup - DB2 Enterprise Sect the installation The DB2 Setup Wizarc that you can use to in	K. Next > Cancel t. The following panel is displayed. se Server Edition - DB2COPY1 n, response file creation, or both I can install DB2 Enterprise Server Edition on this computer, create a response file stall this product on a computer later, or both.	<u>Help</u>
ypical" and click Next setup - DB2 Enterprise ect the installation The DB2 Setup Wizarc that you can use to in If you are setting up a also create a response servers.	  	Help
ypical" and click Next setup - DB2 Enterpris ect the installation The DB2 Setup Wizarc that you can use to in If you are setting up a also create a response servers. (*) Install DB2 En	                         	
ypical" and click Next Setup - DB2 Enterprise Set the installation The DB2 Setup Wizero that you can use to in If you are setting up a also create a response servers. © Install DB2 En © Save my instal	   	
ypical" and click Next etup - DB2 Enterprise ect the installation The DB2 Setup Wizard that you can use to in If you are setting up a also create a response servers. © Install DB2 En © Save my Instal No software v	   	Help
ypical" and click Next Setup - DB2 Enterprise Set the installation The DB2 Setup Wizero that you can use to in If you are setting up a also create a response servers. © Install DB2 En © Save my instal No software v © Install DB2 En	                                  	
ypical" and click Next setup - DB2 Enterprise set the installation The DB2 Setup Wizard that you can use to in If you are setting up a also create a response servers. Install DB2 En C Save my insta No software v C Install DB2 En	                                  	
ypical" and click Next Setup - DB2 Enterprise Set the installation The DB2 Setup Wizard that you can use to in If you are setting up a also create a response servers. © Install DB2 En No software v © Install DB2 En Response file nam	< Back	
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Select "Install DB2 Enterprise Server Edition on this computer" and click Next. The following panel is displayed.

L,	DB2 Setup - DB2 E	nterprise Server Edit	ion - DB2COPY1			
	Select the inst	allation folder				
	The DB2 Setup wi Change or type a	zard installs DB2 Enterpi directory.	ise Server Edition in th	e following folder. To sele	ct a different fold	er, dick
	Directory	C: IBM\SQLLIB\ Space required:	985 MB		Chan Disk sp	ge
Ins	tallShield		< Back	Next >	Cancel	Help

Choose the installation directory and click Next. The following panel is displayed.

🕞 DB2 Setup - DB2 Er	nterprise Server Edition - DB2COPY1		
Set user inform	ation for the DB2 Administration	n Server	
The DB2 Admin Specify the rec	istration Server (DAS) runs on your compu juired user information for the DAS.	er to provide support required by the DB2 tools.	
	User information		
	Domain	None - use local user account	•
	User name	db 2admin	
	Password	•••••	_
	Confirm password		
☑ Use the sa	ame account for the remaining DB2 services		
InstallShield			
	< Back	Next > Cancel	Help

Choose a user name and a password and click Next. The following panel is displayed.

🔂 DB2 Setu	p - DB2 Enterprise Server Edition - DB2COPY1	
Configu	are DB2 instances	
The	e following instances will be created during installation. You can customize the configurations by clicking on configure button.	
	)B2 Instances:	
ľ	Configure	
	Instance description The default instance, DB2, stores application data. You can build a partitioned database environment by installing DB2 Enterprise Server Edition on other computers, and specify that these computers participate in the default instance.	
InstallShield	< Back Next > Cancel	Help

Click Next. The following panel is displayed.

🙀 DE	2 Setup - DB2 Enterprise Server Editi	on - DB2COPY1	
Р	repare the DB2 tools catalog		
	The DB2 tools catalog must be created schedule common tasks such as backup	in order to use the Task Center and scheduler. These tools allow you to s. The DB2 tools catalog must be stored in a DB2 database.	•
	Prepare the DB2 tools catalog		
	Instance	DB2	
	Database		
	New	TOOLSDB	
	C Existing		
	Schema		
	🚱 New	SYSTOOLS	
	C Existing		
Instal	Shield	< Back Next > Cancel	Help

The catalog is not required. Leave the check box blank and click Next. The following panel is displayed.

记 DB2 Setup - DB2 Enterprise Server Edition - DB2COPY1	_ 🗆 X
Set up notifications	
You can set up your DB2 server to automatically send e-mail or pager notifications to alert administrators when a database needs attention. The contact information is stored in the administration contact list. You need an unauthenticated SMTP server to send these notifications.	
If you do not set up your DB2 server to send notifications at this time, the health alerts are still recorded in the administration notification log.	
Set up your DB2 server to send notifications	
Notification SMTP server	
CAdministration contect list location	
C Local - Create a contact list on this computer	
C Remote - Use an existing contact list on another DB2 server	
Remote DB2 server	
InstallShield	lp d

Notifications are not required. Leave the check box blank and click Next. The following panel is displayed.

DB2 Setup - D	B2 Enterprise Server Edition - DB2COPY1		X
Enable ope	rating system security for DB2 obje	ects	
Specify objects the grou	if you would like to enable operating system sec on your computer. If you enable this security, c ps specified below.	urity for DB2 files, folders, registry keys, and other perating system access to DB2 objects will be limited to	
🔲 Enat	ole operating system security		
	Information on the DB2 administrators group	and DB2 users group is available by clicking Help.	
	DB2 administrators group		
	Domain	None - use local group	
	Group name	DB2ADMNS	
	DB2 users group		
	Domain	None - use local group	
	Group name	DB2USERS	
InstallShield			1
	< Back	Cancel Help	

Enabling OS security is not necessary. Leave the check box blank and click Next. The following panel is displayed.



Review the setup and click Install. After a few minutes, the following panel is displayed.

📅 DB2 Setup - DB2 Enterprise Server E	dition - DB2COPY1	×
IBM.	Setup is complete	
	DB2 Setup wizard has finished copying files to your computer and has completed all the required system configuration tasks. Shut down all software programs running on the system now. The programs can then be restarted and DB2 will be ready for use. The install log is located in C:\Users\Administrator\Documents\DB2.OG\DB2-ESE-Mon Jul 05 11_52_12 2010.log. Consult the log file to ensure that all tasks completed successfully.	
	If you have not already done so, it is recommended that you complete the post-install steps after installation.	
	Required steps:	
	You can connect to the DB2 instance "DB2" using the port number "50000". Record it for future reference.	
	Optional steps:	
	To validate vour installation files, instance, and	
	Click Finish to exit the DB2 Setup wizard.	
	Enish	

Click Finish.

Verify & Apply DB2 Licence

Verify that you have a DB2 license. Check the license status using the following command:

📾 Administrator: DB2 CLP - DB2COPY1		_ 🗆 >
C:\Users\Administrator>db2licm -1 Product name: License type: Expiry date: Product identifier: Version information:	"DB2 Enterprise Server Edition" "License not registered" "License not registered" "db2ese" "9.7"	
C:\Users\Administrator>db2level DB210851 Instance "DB2" uses "64" level identifier "08030107". Informational tokens are "DB2 v9.7	' bits and DB2 code release "SQL09072" with ?.200.358", "s100514", "IP23084", and Fix F	h Pack
"2". Product is installed at "C:\IBM\SQ	QLLIB" with DB2 Copy Name "DB2COPY1".	
C:\Users\Administrator>_		

Locate the DB2 license file named **db2ese\_o.lic**. Apply this file using the following command:



Installing Tivoli Directory Integrator V7.0 & fix pack 5

Unzip the file that you downloaded in a directory on your hard disk. Go to the directory and run launchpad.exe. The following panel is displayed.



Select the language and click OK. The following panel is displayed.



Click the "Install IBM Tivoli Directory Integrator" link. The following panel is displayed.



Click the "Tivoli Directory Integrator 7.0 Installer" link. The following panel is displayed.

歯 IBM Tivoli Directory I	Integrator v7.0
IBM.	Welcome to the InstallShield Wizard for IBM Tivoli Directory Integrator v7.0
	The InstallShield Wizard will install IBM Tivoli Directory Integrator v7.0 on your computer. To continue, choose Next. IBM Tivoli Directory Integrator v7.0
InstallShield	Next > Cancel

Click Next. The following panel is displayed.



olimication and the second sec	ntegrator v7.0	_ 🗆 ×
IBM.	Please read the following license agreement carefully.	
	IMPORTANT: READ CAREFULLY	
	Two license agreements are presented below.	
	<ol> <li>IBM International License Agreement for Evaluation of Programs</li> <li>IBM International Program License Agreement</li> </ol>	
	If you are obtaining the Program for purposes of productive use (other than evaluation, testing, trial "try or buy," or demonstration): By clicking on the "Accept" button below, You accept the IBM International Program License Agreement, without modification.	
	laccept the terms in the license agreement	
	O I do not accept the terms in the license agreement.	
	Print	
InstallShield	< Back Next > Cance	el

Accept the license and click  $\ensuremath{\textbf{Next}}.$  The following panel is displayed.

歯 IBM Tivoli Directory I	íntegrator v7.0	_ 🗆 X
IBM.	Click Next to install "IBM Tivoli Directory Integrator v7.0" to this directory, or clic Browse to install to a different directory.	ĸ
	Directory Name: C:\\BM\TDI\V7.0 Brov	vse
InstallShield	< Back Next > Cance	91

Choose the installation directory and click Next. The following panel is displayed.

iBM Tivoli Directory In	ntegrator v7.0
	Choose the installation type that best suits your needs.
InstallShield	< Back Next > Cancel
Select "Typical" and click N	ext. The following panel is displayed.

🛓 IBM Tivoli Directory II	ntegrator v7.0	
IBM.	You have the option of selecting a Solutions Directory. A Solutions Direct a static directory where the IBM Tivoli Directory Integrator Server and Con Editor look for your solutions.	ory is figuration
	C Use a subdirectory named TDI under my home directory	
	C Use Install Directory	
	C Select a directory to use	
	O not specify - use current working directory at startup time	Browse
InstallShield		
instanoniela -	< Back Next > Ca	incel

Select "Do not specify - use current working directory at startup time" and click Next. The following panel is displayed.

IBM Tivoli Directory I	integrator v7.0		_ 🗆 X
IBM.	Enter the port values to be used by Ir	ntegrated Solutions Console SE.	
	HTTP port:	13100	
	HTTPS port:	13101	
	Action Manager API port:	13104	
InstallShield			
	< Back	Next ≻ Ca	ancel

Leave the default values and click Next. The following panel is displayed.

💩 IBM Tivoli Directory Ir	itegrator v7.0	
IBM.	You have the option of registering the Administration and Monitoring Console a a system service.	s
	□ Register the Administration and Monitoring Console as a system service	
	Service Name: Idiamc	
InstallShield	< Back Next > Cancel	

Leave the check box blank and click  $\ensuremath{\textbf{Next}}.$  The following panel is displayed.



Review the setup and click Install. After a few minutes, the following panel is displayed.

👌 IBM Tivoli Directory I	integrator v7.0	_ 🗆 ×
IBM.	Please read the summary information below.	
	The InstallShield Wizard has successfully installed IBM Tivoli Directory Integra v7.0. Choose Finish to exit the wizard.	tor
	Start the Configuration Editor	
InstallShield	Finish	

# Click Finish.

## Apply fix pack 5 to TDI

Unzip the file 7.0.0-TIV-TDI-FP0005.zip to create a folder with the same name (in this example, the file is unzipped in C:\). Change to this directory and locate the UpdateInstaller.jar Jar file. Copy and paste this file in the C:\IBM\TDI\V7.0\maintenance directory, replacing the existing file with the same name.

Change to the C:\IBM\TDI\V7.0\bin directory and run the following command:

applyUpdates.bat -update C:\7.0.0-TIV-TDI-FP0005\TDI-7.0-FP0005.zip



Setting up Federated Repositories and Application Security

Make sure that the Deployment Manager is started.



Click Add Base entry to Realm.



# Click Add Repository.

iew: All tasks 💌	Cell=connectionsCell01, Profile=Dmgr01
elcome	Global security
Suided Activities	Global security > Federated repositories > Repository reference
Servers	Specifies a set of identity entries in a repository that are referenced by a base entry into
Applications	the directory information tree. If multiple repositories are included in the same realm, if might be necessary to define an additional distinguished name that uniquely identifies
Services	this set of entries within the realm.
Resources	General Properties
Security	* Repository
<ul> <li>Global security</li> </ul>	
Security domains	* Distinguished name of a base entry that uniquely identifies this set of entries in the
Administrative Authorization Groups	
SSL certificate and key management	
<ul> <li>Security auditing</li> </ul>	Distinguished name of a base entry in this repository
<ul> <li>Bus security</li> </ul>	
JAX-WS and JAX-RPC security runtime	
Environment	Apply OK Reset Cancel
System administration	
Users and Groups	
Monitoring and Tuning	
Troubleshooting	
Service integration	
I UDDI	

Type a name in the "Repository identifier" field, select a Directory type, type the "Primary host name," and then type the user name and password of the "Bind distinguished name." Use default values for the other fields.

w: All tasks		
2	Global security	
Activities	Global security > Federated repositories > Repository ref	erence > New
	Specifies the configuration for secure access to a Lightweig	ht Directory Access Protocol (LDAP) repository with optional
ns	failover servers.	· · · ·
	General Properties	
es	* Repository identifier	
	LDAP server	Security
arisecurity urity domains	* Directory type	Bind distinguished name
inistrative Authorization Groups	IBM Tivoli Directory Server	cn=root
certificate and key management	* Primary host name Port	Bind password
urity auditing	Idap.example.com 389	••••••
WS and JAX-RPC security runtime	Failover server used when primary is not available:	Login properties
ment	Delate	
administration		LDAP attribute for Kerberos principal name
- administration	Select Failover Host Name Port	Certificate mapping
ina Groups	None	EXACT_DN
ring and Tuning	bba	Certificate filter
shooting		
ntegration		
	Support referrals to other LDAP servers	
	ignore 💌	Require SSL communications
		O Cantally man
		v≊ Centrally managed
		Manage endpoint security configurations
		C Use specific SSL alias
		CellDefaultSSLSettings SSL configurations
Save directly to the master configurat <u>Keves</u> changes before saving or disc option to synchronize the configuration abled in <u>Preferences</u> . The server may need to be restarted it field with the value of the base DN of it sections,dc=example,dc=com.	arding. on across multiple nodes after saving can be for these changes to take effect. the user container of your LDAP server. This changes depending :	on the type of LDAP that you have. In this example, TDS is used
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Save directly to the master configuration of the saving or disc in option to synchronize the configuration abled in <u>Preferences</u> . The server may need to be restarted estimated with the value of the base DN of the the same base of the same same same same same same same sam	arding. an across multiple nodes after saving can be for these changes to take effect. the user container of your LDAP server. This changes depending under directory information tree from which the LDAP search begins. The pollows CN=username in the User Name in Domino in both fields) ave. de= connections,dc=example,dc=com itory that are referenced by a base entry into positories are included in the same realm, it distinguished name that uniquely identifies uniquely identifies this set of entries in the	on the type of LDAP that you have. In this example, TDS is used he entries beneath it in the tree can also be accessed by the LD/
Save directly to the master configuration of the saving or disc. Review changes before saving or disc. In option to synchronize the configuration of the save of the server may need to be restarted stifield with the value of the base DN of the ctions, dc=example, dc=com. Such field defines the location in the LDAP tections, dc=example, dc=com. Stifield defines the location in the LDAP tections, dc=example, dc=com. Stifield defines the location in the LDAP tections, dc=example, dc=com. Stifield defines the location in the LDAP tections, dc=example, dc=com. Stifield defines the location in the LDAP tections, dc=example, dc=com. Stifield defines the location in the LDAP tections, dc=example, dc=com. Stifield defines the location in the the same value as TDS. U are done, click Apply and then click Stifield tections is the same value as TDS. I are done, click Apply and then click Stifield tection in the same value as TDS. I are done, click Apply and then click Stifield tection is the same value as TDS. I are the necessary to define an additional is to entries within the realm. al Properties Pository CDAP Add Repository Inguished name of a base entry in this connections, dc=example, d	arding. an across multiple nodes after saving can be for these changes to take effect. the user container of your LDAP server. This changes depending u directory information tree from which the LDAP search begins. The pollows CN=username in the User Name in Domino in both fields) ave. decconnections,dc=example,dc=com itory that are referenced by a base entry into positories are included in the same realm, it distinguished name that uniquely identifies uniquely identifies this set of entries in the repository	on the type of LDAP that you have. In this example, TDS is used the entries beneath it in the tree can also be accessed by the LD/
<pre>ved pircely to the master configurat view of pircely to the master configurat view changes before saving or disc tion to synchronize the configuratic ed in <u>Preferences</u>. eld with the value of the base DN of the <b>ions,dc=example,dc=com</b>. field defines the location in the LDAP <b>ions,dc=example,dc=com</b>. AP servers: be ou=, o=, (for example, all that for ory - Use the same value as TDS. e done, click Apply and then click Sc rity courty &gt; <u>Federated repositories</u> &gt; a set of identity entries in a reposi- tory information tree. If multiple re- in necessary to define an additional of entries within the realm. reporties tory MP Add Repository uished name of a base entry that un nections,dc=example.c ished name of a base entry in this nections,dc=example.c</pre>	arding. an across multiple nodes after saving can be for these changes to take effect. the user container of your LDAP server. This changes depending under directory information tree from which the LDAP search begins. The ollows CN=username in the User Name in Domino in both fields) ave. dc=connections,dc=example,dc=com itory that are referenced by a base entry into positories are included in the same realm, it distinguished name that uniquely identifies uniquely identifies this set of entries in the repository	on the type of LDAP that you have. In this example, TDS is used he entries beneath it in the tree can also be accessed by the LD/
Save, directly to the master configuration to synchronize the configuration to synchronize the configuration to synchronize the configuration to synchronize the configuration abled in Preferences. The server may need to be restarted stilled with the value of the base DN of if ections,dc=example,dc=com. Ind field defines the location in the LDAP ections,dc=example,dc=com. LDAP servers: Type ou=, o=, (for example, all that fi ectory - Use the same value as TDS. J are done, click Apply and then click Si contry Isecurity > Federated repositories > ise a set of identity entries in a repos rectory information tree. If multiple re be necessary to define an additional at of entries within the realm. IProperties Isository DAP Add Repository Inguished name of a base entry in this connections,dc=example,d and then click Save. : the new base entry has been saved. :pries in the realm:	arding. In across multiple nodes after saving can be for these changes to take effect. the user container of your LDAP server. This changes depending of directory information tree from which the LDAP search begins. The collows CN=username in the User Name in Domino in both fields) ave. <b>dc=connections,dc=example,dc=com</b> Itory that are referenced by a base entry into ipositories are included in the same realm, it distinguished name that uniquely identifies uniquely identifies this set of entries in the repository	on the type of LDAP that you have. In this example, TDS is used the entries beneath it in the tree can also be accessed by the LD/
ave_lirectly to the master configurat cvery changes before saving or disc potion to synchronize the configuration bled in <u>Preferences</u> . The server may need to be restarted field with the value of the base DN of to ctions,dc=example,dc=com. d field defines the location in the LDAP ctions,dc=example,dc=com. DAP servers: ype ou=, o=, (for example, all that for ctory - Use the same value as TDS. are done, click Apply and then click S: unity security > Federated repositories > as a set of identity entries in a repose ctory information tree. If multiple re- sitory DAP IN Add Repository properties sitory Add Repository guished name of a base entry that to nnections,dc=example.d guished name of a base entry in this nnections,dc=example.d pick Reset Cancel nd then click Save. the new base entry has been saved. tries in the realm: dd Base entry to Reslm Us	arding. an across multiple nodes after saving can be for these changes to take effect. the user container of your LDAP server. This changes depending in directory information tree from which the LDAP search begins. The collows CN=username in the User Name in Domino in both fields) ave. dc=connections,dc=example,dc=com itory that are referenced by a base entry into positories are included in the same realm, it distinguished name that uniquely identifies uniquely identifies this set of entries in the repository e built-in repository Remove	on the type of LDAP that you have. In this example, TDS is used the entries beneath it in the tree can also be accessed by the LD/
Save directly to the master configuration of second proferences. The server may need to be restarted stilled in <u>Preferences</u> . The server may need to be restarted stilled with the value of the base DN of the <b>ections,dc=example,dc=com</b> . Ind field defines the location in the LDAP sectors. LDAP servers: Type ou=, o=, (for example, all that field output of ections, dc=example, dc=com. LDAP servers: Type ou=, o=, (for example, all that field output of the same value as TDS. If are done, click Apply and then click Siccurity Execurity > Federated repositories > les a set of identity entries in a repositories of identity entries in a repository of the sufficient of entries within the realm. I Properties Ository DAP A Add Repository nguished name of a base entry in this onnections,dc=example,d iguished name of a base entry in this onnections,dc=example,d iguished name of a base entry in this onnections,dc=example,d and then click Save. the new base entry has been saved. ories in the realm: Add Base entry to Realm Us	arding. an across multiple nodes after saving can be for these changes to take effect. the user container of your LDAP server. This changes depending u directory information tree from which the LDAP search begins. The control of the search begins is the the same readmy is t	on the type of LDAP that you have. In this example, TDS is used the entries beneath it in the tree can also be accessed by the LD/
Save_firectly to the master configuration of a synchronize the configuration of a synchronize the configuration of a synchronize the configuration of the server may need to be restarted the server may need to be needed.	arding. an across multiple nodes after saving can be for these changes to take effect. the user container of your LDAP server. This changes depending u directory information tree from which the LDAP search begins. The ollows CN=username in the User Name in Domino in both fields) ave.	on the type of LDAP that you have. In this example, TDS is used the entries beneath it in the tree can also be accessed by the LD/
Save_firectly to the master configuration of a synchronize the configuration of the server may need to be restarted to the server may need to be needed to the server may needed to the serverer may needed to the server may needed to the server ma	arding. on across multiple nodes after saving can be for these changes to take effect. the user container of your LDAP server. This changes depending of directory information tree from which the LDAP search begins. The ollows CN=username in the User Name in Domino in both fields) ave. dc=connections,dc=example,dc=com itory that are referenced by a base entry into positories are included in the same realm, it distinguished name that uniquely identifies uniquely identifies this set of entries in the repository e built-in repository Remove Repository Identifier Repository Type	on the type of LDAP that you have. In this example, TDS is used the entries beneath it in the tree can also be accessed by the LD/
ave_firstly to the master configuration of synchronize the configuration of synchronize the configuration of the server may need to be restarted field with the value of the base DN of to totons,dc=example,dc=com.         d field defines the location in the LDAP citions,dc=example,dc=com.         DAP servers:         ype ou=, o=, (for example, all that for constructions, dc=example, dc=com.         DAP servers:         ype ou=, o=, (for example, all that for constructions, dc=example, dc=com.         DAP servers:         ype ou=, o=, (for example, all that for constructions, dc=example, all that for constructions, dc=example, all that for constructions, dc=example, all that for construction is the resolm.         Properties         sitory         of entries within the realm.         Properties         sitory         Add Repository         guished name of a base entry that to nections, dc=example, d         ioK       Reset       Cancel         IOK       Reset       Cancel         nections, dc=example, d       using the result of a base entry in this nections, dc=example, d         isse Entry       vadminister the following resourcess (c=consting resources)	arding. on across multiple nodes after saving can be for these changes to take effect. the user container of your LDAP server. This changes depending of directory information tree from which the LDAP search begins. The ollows CN=username in the User Name in Domino in both fields) ave. dc=connections,dc=example,dc=com itory that are referenced by a base entry into positories are included in the same realm, it distinguished name that uniquely identifies uniquely identifies this set of entries in the repository e built-in repository Remove Repository Identifier LDAP:IDS	on the type of LDAP that you have. In this example, TDS is used the entries beneath it in the tree can also be accessed by the LD/
ave directly to the master configuration changes before saving or disc.         prion to synchronize the configuration of the server may need to be restarted field with the value of the base DN of the tions,dc=example,dc=com.         if eld defines the location in the LDAP tions,dc=example,dc=com.         DAP servers:         type ou=, o=, (for example, all that fit tory - Use the same value as TDS.         are done, click Apply and then click S:         arity         ecurity > Federated repositories > is a set of identity entries in a repository information tree. If multiple resorted within the realm.         Properties         itlory, Add Repository         puished name of a base entry that to inections,dc=example.d         uished name of a base entry in this inections,dc=example.d         itlory       Add Repository         puished name of a base entry in this inections,dc=example.d         inections,dc=example.d       ushed name of a base entry in this inections,dc=example.d         ioK       Reset       Cancel         d then click Save.       use new base entry has been saved.         ies in the realm:       Usage entry to Realm       Usage entry administer the following resourcess (cconnections,dc=example.dc=connections,dc=example.dc=connections.dc=example.dc=connections.dc=example.dc=connections.dc=example.dc=connections.dc=example.dc=connections.dc=example.dc=connections.dc=example.dc=connections.dc=example.dc=connections.dc=example.dc=connections.dc=example.dc=con	arding. an across multiple nodes after saving can be for these changes to take effect. the user container of your LDAP server. This changes depending of directory information tree from which the LDAP search begins. The collows CN=usemame in the User Name in Domino in both fields) ave. dc=connections,dc=example,dc=com itory that are referenced by a base entry into positories are included in the same realm, it distinguished name that uniquely identifies uniquely identifies this set of entries in the repository e built-in repository Remove Repository Identifier Repository Type myLDAP LDAP: IDS InternalFileRepository File	on the type of LDAP that you have. In this example, TDS is used the entries beneath it in the tree can also be accessed by the LD/



Optional: If you want to set up SSO later, you must do the following:

Expand the "Security" section and click Global security. On the right, click the + sign next to "Web and SIP security" and then click Single sign-on (SSO).





Installation and Configuration Instructions

After all of the prerequisite steps are complete, take the following actions to configure, create, and populate the database as well as install Lotus Connections 3.0.

Configure the Database Instance

Following the DB2 install process proposed above, the instance named DB2 is created. This instance is used to host our databases for this scenario.

On the **db.example.com** machine, extract the Lotus Connections Wizards to a directory. From here, find the folder named **Wizards**. This folder contains two batch files of interest - dbWizard.bat and populationWizard.bat, the first of which is a wizard that creates the nine databases required to run Lotus Connections, the second that populates the profiles database with user data.

. Note that in a Linux environment, these files have the extension '.sh' and are used in exactly the same way.

Before creating the databases, you must create a user on the operating system for DB2 named **Icuser**. This user will be the owner of the databases when they are created. On the database machine, expand **Computer** Management > System Tools > Local Users and Groups > Users. Right click on Users and select New User... as shown.



Enter user and password details of Icuser. Ensure to deselect the "User must change password at next logon" option. Click Create when ready.

New User	? ×
<u>U</u> ser name:	Icuser
Eull name:	lcuser
Description:	DB2 user to adminiser Lotus Connection databases
Password:	•••••
<u>C</u> onfirm passwor	d: ••••••
🔲 User <u>m</u> ust cł	ange password at next logon
🔲 U <u>s</u> er cannot	change password
Pass <u>w</u> ord ne	ver expires
🔲 Account is d	sa <u>b</u> led
	·
Help	Cr <u>e</u> ate Cl <u>o</u> se

After the user is created, right-click the user and click **Properties**. Select the **Member of** tab. The lcuser user must be added to the DB2USERS group. Click **Add** and type **DB2USERS** in the "Enter the object names to select" field as shown below. Click **OK** until you are back to the Computer Management panel. Your computer is now prepared for the Lotus Connections databases to be created.
lcuser Properties	? ×
Remote Desktop Services Profile         Personal Virtual Desktop         Dia           General         Member Of         Profile         Environment         Sessions         Remote co	l-in ) ontrol
Member of:	
A Users	
Select Groups	? ×
Select this object type:	
Groups	Object Types
From this location:	
DSLVM449	Locations
Enter the object names to select ( <u>examples</u> ):	
DB2USERS	Check Names
Advanced OK	Cancel
Changes to a user's group membership	
user logs on.	
OK Cancel Apply Hel	

Note: If the DB2USERS group is not found, extended security for DB2 on Windows might not be enabled. To enable extended security on Windows, stop the database, run the db2extsec.exe command, and then restart the database again as shown. For more information about Extended Windows security using DB2ADMNS and DB2USERS groups, refer to the DB2 product documentation.

PS C:\IBM\SQLLIB\BIN> db2stop
12/08/2010 14:36:59 0 0 SQL1064N DB2STOP processing was successful.
SQL1064N DB2STOP processing was successful.
PS C:\IBM\SQLLIB\BIN> .\db2extsec.exe
The DB2EXTSEC command completed successfully.
PS C:\IBM\SQLLIB\BIN> db2start
12/08/2010 14:37:58 0 0 SQL1063N DB2START processing was successful.
SQL1063N DB2START processing was successful.
PŠ C:\IBM\SQLLIB\BIŴ> _

# Linux Only Step

For Linux users, the following steps cover the process mentioned above:

- Log into the DB2 server as root user and then type the following commands to create the user:
   useradd lcuser
- passwd Icuser
- When prompted for a new password, enter it, and then confirm the password.

# Important:

When using other databases, such as Oracle Database Server or Microsoft SQL Server, you do not need to create the "lcuser" user, as instructed above. Instead, when using the wizard to create the databases, new database users are created. You are prompted to provide a password for each of the database users.

\* When using Microsoft SQL Server, you are prompted to provide a location on the file system for the databases being created.

# Linux Only Step

Before running the database wizard (dbWizard) on Linux systems, ensure the following is set:

- Ensure that users (other than root) have permission to access the Lotus Connections Wizards directory. To do so, run the following command against the directory containing these wizards:
   chmod -R 777 < wizards\_directory
- To grant display authority to other users, run the following command as root:
- xhost +
- Take note of the DISPLAY variable with following command: echo \\$DISPLAY
- On Linux, dbWizard must be run by the database instance user (for example, db2inst1 user). Switch to this database user from the terminal as follows:
- su db2inst1Set the DISPLAY variable with the following command:
  - export DISPLAY=<hostname:displaynumber.screennumber
  - Where <hostname:displaynumber.screennumber specifies the client system, monitor number and window number (for example, localhost:0.0).
- To verify that this user can use the display with the following simple test, enter the following command:

xclock

- If the clock launches, the system is ready to begin the dbWizard. Press Ctrl+C to exit the clock.
- Ensure the database is started and run the dbWizard.sh command to begin to create the databases. The screen shots below are the same for all operating systems.

# To run the database wizard, follow these steps:

1.Run dbWizard.bat. The following panel is displayed



3. Select which task to use on the panel above. For example, select Create and then click Next. The following panel is displayed.

Database wizard for Lotus Connections 3.0			
Database selection		Lotu	<mark>ıs.</mark> Connections
Select the database type, installation location, and database instance.			
OB2 Universal Database (TM)			
O Oracle Enterprise Edition			
C SQL Server Enterprise Edition			-
Database installation location:			
C:\IBM\SQLLIB\		Browse	
Database instance:			
	Back	Next	Cancel

4. On the panel above, check the database type you are using, in this case DB2. Then select the installation location and the DB2 instance name. Click Next to display the following panel.

atabase wizard for Lotus Connections 3.0	
atures selection	Lotus. Connection
act the features for which you want to create databases. You cannot select features that already have database e: The Search and News repository features are contained in the Home page database.	es.
Activities	
Blogs	
Communities	
Dogear	
Profiles	
Home page	
Wikis	
Files	
Forums	
Select All	

5. Select which database tables to create. In this case, all database tables are required since all Lotus Connections services are being installed. Ensure all check boxes are selected and then click Next. The following panel is displayed.



6. The panel above provides a summary of which databases will be created and which scripts are run to achieve this. For more information on the database commands, select the "Show the detailed database commands" check box. If you select this check box and click **Create**, the following panel is displayed. If you do not select this check box, a progress indicator is displayed as the databases are created.

😂 Database wizard for Lotus Connections 3.0		_ 🗆 🗡
Database creation detailed command	Lotus	. Connections
The following commands will be executed, click "Execute" to run them.		
Activities 1. C:\IBM\SQLLIB\bin\db2cmd -c -w -i db2 -td@ -vf connections.sql\activities\db2\createDb.sql 2. C:\IBM\SQLLIB\bin\db2cmd -c -w -i db2 -td@ -vf connections.sql\activities\db2\appGrants.sql	<b></b>	IBM.
Blogs 1. C:\IBM\SQLLIB\bin\db2cmd -c -w -i db2 -td@ -vf connections.sql\blogs\db2\createDb.sql 2. C:\IBM\SQLLIB\bin\db2cmd -c -w -i db2 -td@ -vf connections.sql\blogs\db2\appGrants.sql		
Communities 1. C:\IBM\SQLIB\bin\db2cmd -c -w -i db2 -td@ -vf connections.sql\communities\db2\createDb.sql 2. C:\IBM\SQLIB\bin\db2cmd -c -w -i db2 -td@ -vf connections.sql\communities\db2\appGrants.sql		
Dogear 1. C:\IBM\SQLLIB\bin\db2cmd -c -w -i db2 -td@ -vf connections.sql\dogear\db2\createDb.sql 2. C:\IBM\SQLLIB\bin\db2cmd -c -w -i db2 -td@ -vf connections.sql\dogear\db2\appGrants.sql	-	
Profiles 1. C:\IBM\SQLLIB\bin\db2cmd -c -w -i db2 -tvf C:\Software\Wizards\connections.sql\profiles\db2\createDb 2. C:\IBM\SQLLIB\bin\db2cmd -c -w -i db2 -tvf C:\Software\Wizards\connections.sql\profiles\db2\appGrant	o.sql	
Home page           1. C:\IBM\SQLLIB\bin\db2cmd -c -w -i db2 -tvf connections.sql\homepage\db2\createDb.sql           2. C:\IBM\SQLLIB\bin\db2cmd -c -w -i db2 -tvf connections.sql\homepage\db2\createDb.sql           3. C:\IBM\SQLLIB\bin\db2cmd -c -w -i db2 -tvf connections.sql\homepage\db2\createDb.sql           4. C:\IBM\SQLLIB\bin\db2cmd -c -w -i db2 -tvf connections.sql\homepage\db2\createDb.sql           5. C:\IBM\SQLLIB\bin\db2cmd -c -w -i db2 -tvf connections.sql\homepage\db2\createDb.sql           6. C:\IBM\SQLLIB\bin\db2cmd -c -w -i db2 -tvf connections.sql\homepage\db2\createDb.sql	-	
Save As		
Back	Execute	Cancel

If you choose to view the detailed database command panel above, you can save these commands via the Save As... button or click Execute to launch the creation of these databases.

😓 Database wizard for Lotus Connections 3.0			
Database creation task		Lotu	<mark>s.</mark> Connections
Creating databases Logging to C:\Users\Administrator\JcWizard\Jog\dbWizard\dbConfig_20100812_134343_	activities_createDb.log		IBM.
Open log			
	Back	Next	Cancel

7. During the creation process, you can open the log files to view progress. The **Open log** button opens the directory containing the logs. The database creation process should only take a few minutes, depending on the speed of your system. After the process is complete, the following summary panel is displayed:

Database wizard for Lotus Connections 3.0	
Post configuration task summary	Lotus. Connections
The database creation task completed. The following configuration was used:	
Action: Create Lotus Connections database         Database type: DB2 Universal Database (TM)         Database install location: C:\IBM\SQLIB\         Database install ocation: C:\IBM\SQLIB\         Database install coation: C:\IBM\SQLIB\         Database user: LCUSER         Sigl scripts ran: createDb.sql, appGrants.sql         Database name: BLOGS         Database name: COSER         Sigl scripts ran: createDb.sql, appGrants.sql         Result: The database creation was successful.	
Communities Database name: SNCOMM Database user: LCUSER Sql scripts ran: createDb.sql, appGrants.sql Result: The database creation was successful.	
Dogear Database name: DOGEAR Database user: LCUSER Sql scripts ran: createDb.sql, appGrants.sql	T
Back	Finish Cancel

8. Results are displayed. The result field for each database should state, "The database creation was successful". Scroll down the list to verify that the databases were created successfully. In the event that there were issues with the database creation, click **Open log** to view the logs for the script that failed. The log file should indicate what the problem is. For additional help, see the Troubleshooting section of this document.



9. If you click the **Open log** button, the following folder displays the individual logs for each of the database creation scripts. To close this window, click the **X** icon on the top right. This action returns you to the summary panel in step 8. Click **Finish** to close the database wizard.

# Populating the Profiles Database

The profiles database must be populated with users from the LDAP before you can log in to Lotus Connections 3.0. To begin populating user data in the profiles database, run the populationWizard.bat file.

On the welcome panel, click Next. The following panel is displayed.

	La	<mark>otus.</mark> Con	nections
This wizard populates the Profiles database for Lotus Connections with users from your LDAP directory.		-	
T = () =() =(_) =(			
To access information about this product, click the Launch Information Center.			
Launch Information Center		1	
Licensed Materials - Property of IBM. License L-JYUN-84PNUQ BCopyright IBM Corporation and its licensors 2007, 2010. All Rights Reserved. IBM, the IBM logo, ibm. rademarks of IBM Corporation in the United States, other countries, or both. Other company, product or	com and Lotus are service names may be		
acemans or service marks or oners. A current list of the fragemarks is available on the verb at www.ibm.com/ega/copy/rade.shtml. U.S. Government Users Restricted Rights: Use, duplication or disc ISA ADP Schedule Contract with IBM Corp. Please see the About page for further information.	- closure restricted by		
ademants or service marks of others. A current ust of the trademarks is available on the verb at wwithm.com/egal/copytrade shtmi. U.S. Government Users Restricted Rights: Use, duplication or disc SA ADP Schedule Contract with IBM Corp. Please see the About page for further information.	closure restricted by		
ademarks or service marks of others. A current list of this fademarks is adminible on the who at www.ibm.com/Hegal/copytrade.shtml. U.S. Government Uesr Restricted Rights: Use, duplication or disc GSA ADP Schedule Contract with IBM Corp. Please see the About page for further information.	closure restricted by		
It determines or service marks of others. A current list of IbM drademarks is evaluable on the Wrop at www.ibm.com/lega/copytrade.shtml. U.S. Government Users Restricted Rights: Use, duplication or disc GSA ADP Schedule Contract with IBM Corp. Please see the About page for further information. e wizard warns that Tivoli Directory Integrator is not installed in its default location. Select the local profiles population wizard for Lotus Connections 3.0 Tivoli Directory Integrator install location The wizard was unable to locate the Tivoli Directory Integrator in the default location.	closure restricted by Back ation where it was ins	Next alled, C:\IBM\ otus, Con	<u>⊆</u> ancel TDIV7.0, and ∎□× Inections
It determines or service marks of others. A current list of IbM trademarks is available on the Web at www.ibm.com/lega/copytrade.shtml. U.S. Government Users Restricted Rights: Use, duplication or disc GSA ADP Schedule Contract with IBM Corp. Please see the About page for further information. e wizard warns that Tivoli Directory Integrator is not installed in its default location. Select the local profiles population wizard for Lotus Connections 3.0 <b>Tvofiles population wizard for Lotus Connections 3.0</b> Tvoli Directory Integrator install location I he wizard was unable to locate the Tivoli Directory Integrator to populate the Profiles database. Specify the location of tegrator program files. Tivoli Directory Integrator must be version 7.0, FixPack4.	closure restricted by Back ation where it was ins Lt the Tivoli Directory	Next alled, C:\IBM\ otus. Con	Cancel TDIV7.0, and CONCENTIONS
rademarks or service marks or others. A current list of IbW dademarks is available on the WP at www.ibm.com/ega/copyrtade.shtml. U.S. Government Users Restricted Rights: Use, duplication or disc GSA ADP Schedule Contract with IBM Corp. Please see the About page for further information. wizard warns that Tivoli Directory Integrator is not installed in its default location. Select the loca <b>Profiles population wizard for Lotus Connections 3.0</b> <b>ivoli Directory Integrator install location</b> ) The wizard was unable to locate the Tivoli Directory Integrator in the default location. us Connections uses Tivioli Directory Integrator to populate the Profiles database. Specify the location of egrator program files. Tivoli Directory Integrator must be version 7.0, FixPack4. ect the location of the Tivoli Directory Integrator installation directory:	closure restricted by Back ation where it was inso	Next alled, C:\IBM\ otus. Con	<u>⊆</u> ancel TDI\V7.0, and <b>⊡</b> × nnections

Back Next

<u>C</u>ancel

Select the database type, in this case DB2. Click  $\ensuremath{\textbf{Next}}$  to continue.

Profiles population wizard for Lotus Connections 3.0	_ <b>_ _</b> ×
Profiles database type	Lotus. Connections
Select the Profiles database type.	
C SQL Server Enterprise Edition	
	Back Next Cancel

Now input the database information into the wizard. Update the fields as follows. The port number is 50000 by default, unless this was updated in the db2 config. Note that on Linux systems, the default port number is 50001. Click Next to continue.

📥 Profiles population wizard for Lotus Connections 3.0	
Profiles database properties	Lotus. Connections
Enter the Profiles database properties. The wizard uses this information to access the Profiles database.	
Host name:	7812
db.example.com	;_∘
Port:	
50000	
Database name:	
PEOPLEDB	
JDBC driver library path:	
C:\IBM\SQLLIB\java Brow	vse
User ID (Account used to write to database):	
LCUSER	
Password:	
•••••	
Back	<u>N</u> ext <u>C</u> ancel

Type the LDAP server name and port number and then click Next.

😓 Profiles population wizard for Lotus Connections 3.0	_ 🗆 ×
LDAP server connection	Lotus. Connections
Specify the LDAP host name and port to enable the Profiles population wizard to connect to the LDAP server.	
LDAP server name:	
Idap.example.com	
LDAP server port:	
389	
Select to use SSL communication for secured access	
Use SSL communication	
[	Back Next Cancel

Enter the bind user and password and then click Next.

📥 Profiles population wizard for Lotus Connections 3.0	
LDAP authentication properties	Lotus. Connections
Enter the bind distinguished name and password to to allow the wizard to access the LDAP directory.	
Bind distinguished name (DN):	TTM
cn=root	
Bind password:	
	Back Next Cancel

Select the search base and ensure that the LDAP user search filter is correctly identified. This filter can differ based on different LDAPs. Click Next to continue.



	Alternate last name			
	Building			
	Blog link			
	Calendar link			
c	Country code			
	Courtesy title			
	Department number			/
description	About me			
cn	Name			
\$dn	LDAP distinguished name			
mail	Office email			
employeenumber	Employee number			
employeetype	Employee type			
	Background			
facsimiletelephonenumber	Fax number			
	Floor			
	Free/Busy time link			
givenName	default given name			
givenName	Supported multiple given names		11111	
	Alternate email		1	
	description cn \$dn mail employeenumber employeetype facsimiletelephonenumber givenName givenName	Courtesy title         Department number         description       About me         cn       Name         \$\phintsinguished name       Image: Construct on the structure of the structur	Courtesy title       Department number       description       About me       cn       Name       \$dn       LDAP distinguished name       mail       Office email       employeenumber       Employee type       Background       facsimiletelephonenumber       Floor       Free/Busy time link       givenName       default given name       givenName       Alternate email	Courtesy title         Department number         description         About me         cn         Name         \$dn         LDAP distinguished name         mail         Office email         employeenumber         Employee type         Background         facsimiletelephonenumber         Filoor         Free/Busy time link         givenName         default given name         givenName         Alternate email

Optional tasks can be run to add additional information to the profiles database, such as county, department and organizational details, which are not in LDAP. For this example, the default values are selected. For more information about running this task, see the following wiki article: http://www-10.lotus.com/ldd/lcwiki.nst/dx/Mapping\_fields\_manually\_lc3

Profiles population wizard for Lotus Connections 3.0		
)ptional database tasks	Lotus	s. Connection
elect the check box for each type of optional information that you want to add. You must supply formation type.	a CSV file with data for each	7012
Countries		<u>≞⊒</u> ⊒₹⊑⊚
C:\Software\Wizards\TDIPopulation\TDISOL\win\isocc.csv	Browse	
Departments		
C:\Software\Wizards\TDIPopulation\TDISOL\win\deptinfo.csv	Browse	
C Organizations		
C:\Software\Wizards\TDIPopulation\TDISOL\win\orginfo.csv	Browse	
Employee types		
C:\Software\Wizards\TDIPopulation\TDISOL\win\emptype.csv	Browse	
Work locations		
C:\Software\Wizards\TDIPopulation\TDISOL\win\workloc.csv	Browse	
Do you want to run the task that marks the profiles of each manager? • Yes • No		
	Back	Next Cance

When you are ready to begin population, click **Configure** as shown.

😫 Profiles population wizard for Lotus Connections 3.0

Lotus. Connections

Profiles population configuration summary

Profile population wizard is ready to run the population with the following configuration.	IBM.
Configuration details: Database host name: t0-example.com Database name: PEOPLEDB Database user ID: LCUSER Database user ID: LCUSER Database user ID: LCUSER Database type: DB2 Universal Database(TM) LDAP host name: tdap-example.com LDAP server port: 389 Bind distinguished name: cn=root LDAP user search filter: (&(uid=")(object/ass=inetOrgPerson)) Tivoli Directory Integrator installation location: C:(IBM(TD1(V7.0 Use SSL communication: No Optional task list: Mark managers To change any settings, click Back. To begin the configuration, click Configure	
Back	Configure <u>C</u> ancel
Profiles population wizard for Lotus Connections 3.0	
Executing population task	Lotus Connections

	Lotus. Connections
This task may take several minutes or hours, depending on the size of your LDAP directory.	
Populating	TRM
Logging into C:\Users\Administrator\lcWizard\log\tdi\tdi_20100812_140415.log	
Open Log	

When the profiles population is complete, the following completion summary is displayed. Verify the results before proceeding. Click Finish to close the Profiles population wizard.

Population completion summary Lotus. Conner The profiles wizard execution is finished. The execution result is as following: populate Idap data to EMPLOYEE table The Tivoli Directory Integrator population output: CLFRN00271: After iteration, success records is 70, duplicate records 0, failure records is 0, last successful entry is uid=MRodriguez,cn=users,DC=CONNECTIONS,DC=EXAMPLE,DC=COM Mark manager profiles Successful! For additional Information, refer to log file C:\Users\Administrator\LWizard\log\td\td\tdi_20100812_140415.log and C:\Software [Wizards\TDIPopulation\TDISOL\winl\logs\PopulateDBFromDNFile.log [View log] The following configuration has been run: Configuration details: Database hose barber.edm	
The profiles wizard execution is finished. The execution result is as following: populate Idap data to EMPLOYEE table The Tivol Directory Integrator population output: CLFRN0027I: After iteration, success records is 70, duplicate records 0, failure records is 0, last successful entry is uid=MRodflyguez, cn=users,DC=CONNECTIONS,DC=EXAMPLE,DC=COM Mark manager profiles Successful For additional information, refer to log file C:\Users\Administrator\LcWizard\log\td\tdi_20100812_140415.log and C:\Software [Wizards\TDIPopulation\TDISOL\win\Uogs\PopulateDBFromDNFile.log View log The following configuration has been run: Configuration details: Database hose hoseme.	ctions
The execution result is as following: populate Idap data to EMPLOYEE table The Tivoli Directory Integrator population output: CLFRN0027: After iteration, success records is 70, duplicate records 0, failure records is 0, last successful entry is uid=MRodriguez,cn=users,DC=CONNECTIONS,DC=EXAMPLE,DC=COM Mark manager profiles Successful! For additional information, refer to log file C:\Users\Administrator\CWizard\log\td\tdi_20100812_140415.log and C:\Software \Wizards\TDIPopulation\TDISOL\win\logs\PopulateDBFromDNFile.log \Wew log The following configuration has been run: Configuration details: Database host pame: dh.example.com	
Successful! For additional information, refer to log file C:\Users\Administrator\IcWizard\log\tdi\tdi_20100812_140415.log and C:\Software \Wizards\TDIPopulation\TDISOL\win\logs\PopulateDBFromDNFile.log \View log The following configuration has been run: Configuration details: Database host pame: dit example.com	
Database name: PEOPLEDB Database part: 50000 JDBC driver library path: C:\IBM\SQLLIB\java Database user ID: LCUSER Database user ID: LCUSER Databa	
Back. Finish	⊆ancel

Installing Lotus Connections 3.0

To install Lotus Connections ,complete the prerequisite tasks and then launch the installer.

Before You Install

Before beginning the installation, review the following considerations:

#### **Rational Installation Manager**

Lotus Connections 3.0 uses the Rational Installation Manager to provide an enhanced installation experience. Before beginning the installation, make sure to uninstall any older version of Rational Installation Manager. You are prompted to install this software when you launch the Lotus Connections 3.0 installation wizard.

# Deployment Manager and Node Agent

Start the Deployment Manager before launching the installation wizard. The node agent should also be started so that resynchronization is possible between the Deployment Manager and node when required.

# Linux / AIX Issues

If installing Lotus Connections 3.0 on a Linux system as a non-root user, refer to the topic about installing as a non-root user at http://www-10.lotus.com/idd/icwiki.nsf/dx/Installing\_as\_a\_nonroot\_user\_ic3. In AIX environments, GNU Tar is required to untar the installation packages. You can download GNU Tar from the following location: http://www.ibm.com/systems/power/software/aix/linux/toolbox/alpha.html.

#### Shared Data Folder

Because this is a one-node deployment, there is no need to mount a shared space for Lotus Connections data content to be stored. During installation, you are prompted to provide the location of the shared data directory. In this case, the local disk drive is used. The shared data directory, however, must be mounted on each node when there is more than one node.

## DB2

Before you begin to install Lotus Connections 3.0, you must copy the JDBC driver from the DB2 server (db.example.com to a local directory on connections.example.com - the directory used is C:\IBM\JDBC\_Drivers). These drivers are used by Lotus Connections to connect to the database. On the DB2 machine, these drivers are located in the C:\IBM\SQLIB\java directory. The names of the drivers required are db2jcc.jar and db2jcc\_licence\_cu.jar.

🍌 🝷 Computer	<ul> <li>Local Disk (C:) ▼ IBM ▼ SQLLIB ▼ java</li> </ul>	i •	🔻 🛃 Se	arch java	
- 📄 Open - Ni	ew folder				
ites	Name *	Date modified	Туре	Size	
ktop	퉬 images	09/08/2010 17:43	File folder		
/nloads	퉬 jdk	09/08/2010 17:43	File folder		
ent Places	Common.jar	16/05/2009 13:05	JAR File	2,161 KB	
es	📄 db2dbgm.jar	16/05/2009 13:05	JAR File	50 KB	
uments	🌗 db2java	16/05/2009 13:05	Compressed (zipp	e 850 KB	
ic	📄 db2jcc.jar	16/05/2009 13:05	JAR File	3,013 KB	
Jres	db2jcc_license_cu.jar	16/05/2009 13:05	JAR File	1 KB	
:0S	📄 db2jcc4.jar	16/05/2009 13:05	JAR File	3,167 KB	
ivers		!==!===			
📕 🔹 Network 🔹	• connections.example.com • c\$ • IBM •	· JDBC_Drivers	🕶 🚺 Se	arch JDBC_Drivers	
<ul> <li>New folder</li> </ul>			1		
ites	Name *	Date modified	Туре	Size	
ktop	db2jcc.jar	16/05/2009 13:05	JAR File	3,013 KB	
vnloads ent Places	b2jcc_license_cu.jar	16/05/2009 13:05	JAR File	1 KB	

In cases where DB2 is not the database used, consult the following table to see which JDBC Driver to use. The drivers should be copied to this same location, regardless of which DB is used.

Database Type	JDBC Driver Name
DB2 v9.7 FP2	db2jcc.jar db2jcc_licence_cu.jar
Oracle	ojdbc6.jar
MS SQL Server	sqljdbc4.jar

Begin the Installation

Extract the Lotus Connections installation files to a location on connections.example.com, such as C:\Software. From the extracted folder (LC\_Install\_IM), double-click launchpad.exe to begin the installation.

M <sup>®</sup> Lotus <sup>®</sup> Connection	S 3.0 Select a language: English
Welcome	
Documentation	Welcome
Pre-installation tasks	Lotus Connections is social networking software designed for the
Install Lotus Connections 3.0	workplace. Its applications help you to establish dynamic networks that connect you to the people and information you need to achieve your
Post-installation tasks	business goals.
Exit	<b>To begin,</b> choose the options at the left to perform the pre-installation tasks, installation tasks, and post-installation tasks.
	Licensed Materials - Property of IBM Corp. © IBM Corporation and other(s) 2007,2010.
	The Oracle OutsideIn Technology included herein is subject to a restricted use license and can only be used in conjunction with this application.
	Java Comparis
DM	

The welcome panel contains links to general documentation as well as information about pre- and post-installation tasks. Select the Install Lotus Connections 3.0 option as shown.



The above panel contains information about Rational Installation Manager and includes an important note about starting the Deployment Manager before beginning the installation. See the section in this article about starting and stopping Lotus Connections 3.0 to find out how to start the Deployment Manager. After the Deployment Manager is started, select the "Launch the Lotus Connections 3.0 install wizard" option shown above. The following installer panel is displayed.

elect the packages to install.			4
Installation Packages	Status	Vendor	License Key Type
□       □		IBM	No key required
Show all versions etails BM® Installation Manager 1.3.3			Check for Other Versions and Extension
M@ Installation Manager <u>More info</u> M@ Installation Manager <u>More info</u> Repository: C:\Software\LCI3.0_20100803.2000\Lotus_Connections\LC_Install_IM\IM\ IM\IM\IM\IM\IM\IM\IM\IM\IM\IM\IM\IM\IM\I	windows		

🚊 IBM Installation Manager		_ 🗆 ×
Install Packages Read the following license agreements carefully.		
Install Licenses Location	Features Summary	
IBM® Lotus Connections     IBM® Lotus Connections License Agreement     IBM® Lotus Connections License Information     IBM Installation Manager     License Agreement	IMPORTANT: READ CAREFULLY         Two license agreements are presented below.         1. IBM International License Agreement for Evaluation of Programs         2. IBM International Program License Agreement         If Licensee is obtaining the Program for purposes of productive use (other than evaluation, testing, trial "try or buy," or demonstration).         If Licensee is obtaining the Program for the purpose of evaluation, testing, trial "try or buy," or demonstration).         If Licensee is obtaining the Program for the purpose of evaluation, testing, trial "try or buy," or demonstration).         If Licensee is obtaining the Program for the purpose of evaluation, testing, trial "try or buy," or demonstration (collectively, an Evaluation"): By clicking on the "Accept" button below, Licensee accepts both (i) the IBM International License Agreement for Evaluation"): By clicking on the "Accept" button below, Licensee accepts both (i) the IBM International Program License Agreement for Evaluation in the "accept" button below, and the program after the Evaluation and the program License Agreement for Evaluation License will apply during the term of Licensee's Evaluation.         The Evaluation License will apply during the term of Licensee's Evaluation.         The IBM Passport Advantage Express agreements).         The Evaluation License and the IPLA are not in effect concurrently; neither modifies the other; and each is independent of the other.         The complete text of each of these two license agreements follow.         International License Agreement for Evaluation of Programs         Part 1 - General Terms <t< td=""><td>e e</td></t<>	e e
A Largert the tarme in the ligence agreements	PROVINCE RELAXMENTER ROOKANING THE PARTY ROLL WHOM TO ACQUILE IT. II TO DOWNLOADED THE PROGRAM,	
O I do not accept the terms in the license agreements	<u>Print</u>	All
0	< <u>B</u> ack <u>N</u> ext > Install	Cancel

Installation Manager		
nstall Packages		N
select a location for the shar	red resources directory and a location for Installation Manager.	
* 1 8		
Install Licenses	Location Features Summary	
When you install pa	ckages, files are stored in two locations:	
🔥 1) The shared resou	arces directory - resources that can be shared by multiple packages.	
2) The installation di	irectory - any resources that are unique to the package that you are installing.	
Important: You can available space beca	only select the shared resources directory the first time you install a package with the IBM Installation Manager. For best results select the drive with ause it must have adequate space for the shared resources of future packages.	the most
hared <u>R</u> esources Directory:	C: (Tew/Dokousled	Browse
Once installed, IBM	Installation Manager will be used to install, update, modify, manage and uninstall your packages. y: [C:\IBM\Installation Manager\eclipse]	Browse
Once installed, IBM : Installation Manager Director Visk Space Information	Installation Manager will be used to install, update, modify, manage and uninstall your packages. 	Browse
Once installed, IBM : astallation Manager Director Disk Space Information Volume Available Space C: 17.78 GB	Installation Manager will be used to install, update, modify, manage and uninstall your packages. y:  C:\IBM\Installation Manager\eclipse	Browse
Once installed, IBM :  Astallation Manager Director  Disk Space Information  Volume Available Space C: 17.78 GB	Installation Manager will be used to install, update, modify, manage and uninstall your packages. y:  C:\IBM\Installation Manager\eclipse	Browse
Once installed, IBM: Installation Manager Director Disk Space Information Volume Available Space C: 17.78 GB	Installation Manager will be used to install, update, modify, manage and uninstall your packages.	Browse
Once installed, IBM:     Available     Available Space     T7.78 GB	Installation Manager will be used to install, update, modify, manage and uninstall your packages.	Browse
Once installed, IBM :     Aralect Information     Volume Available Space     T 7.78 GB	Installation Manager will be used to install, update, modify, manage and uninstall your packages. 	Browse
Once installed, IBM: Astallation Manager Director  Disk Space Information Volume Available Space C: 17.78 GB	Installation Manager will be used to install, update, modify, manage and uninstall your packages.           y:         C:\IBM\Installation Manager\eclipse	Browse
Once installed, IBM: Installation Manager Director Pisk Space Information Volume Available Space C: 17.78 GB	Installation Manager will be used to install, update, modify, manage and uninstall your packages.  y:  C:\IBM\Installation Manager\eclipse	Browse
Once installed, IBM: Installation Manager Director Visk Space Information Volume Available Space C: 17.78 GB	Installation Manager will be used to install, update, modify, manage and uninstall your packages.  y: [C:\IBM\Installation Manager\eclipse]	Browse
Once installed, IBM:     Arader Director      Disk Space Information      Volume Available Space C: 17.78 GB	Installation Manager will be used to install, update, modify, manage and uninstall your packages.  y: [C:\IBM\Installation Manager\eclipse]	Browse
Once installed, IBM :	Installation Manager will be used to install, update, modify, manage and uninstall your packages.  y:   y:   C:\IBM\Installation Manager\eclipse	Browse

Accept the license agreement and click  $\ensuremath{\textbf{Next}}$  to continue.

<b>nstall Packages</b> A package group is a location that contains one or more packages. Some compatible pa	arkages can be installed into a common parkage group and will share a common user interface.
elect an existing package group, or create a new one. Install Licenses Location Features Summary	
Use the existing package group	
● Create a new package group	
Package Group Name	Installation Directory
Package Group Name: IBM® Lotus Connections Installation Directory: C:\IBM\LotusConnections Details	Brows
Shared Resources Directory: C:\IBM\SSPShared	Volume Available Space C: 17.78 GB

nstall Package	c					
fistali i dokago						
Select the reatures to ins	icall.					
Install 🔀 Licen	ises Loca	ition Fea	tures Sumi	mary		
Features						
	ation Manager 1.3	1.3				
🗄 🔽 🧊 Lotus Connec	tions 3.0.0.0					
🖃 🗹 🟠 Core Fea	tures					
🗹 Searc	:h					
News	repository					
- Home	e page					
🖻 🗹 🔥 All Featur	res					
Activi	ities					
Blogs						
Comr	nunities					
Booki	marks					
Files						
Forur	ns					
Mobil	e					
Profil	es					
WIKIS						
<b>1</b> Show dependencies						Expand All Collapse All Restore Default
Show dependencies	ion Manager beca	use of dependencie				Expand All Collapse All Restore Default
Show dependencies	ion Manager beca	use of dependencie	s			Expand All Collapse All Restore Default
☐ Show dependencies ǿ- Selected by Installati Details	ion Manager beca	use of dependencie	s			Expand All Collapse All Restore Default
Show dependencies	ion Manager beca	use of dependencie:	s			Expand All Collapse All Restore Default
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Show dependencies Selected by Installati Netails BM® Installation Marage 3M® Installation Marage	ion Manager beca nager 1.3.3 er	use of dependencie	s			Expand All Collapse All Restore Default
Show dependencies Selected by Installat retails BM® Installation Manage	ion Manager beca nager 1.3.3 er	use of dependencie	S			Expand All Collapse All Restore Default
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Show dependencies Selected by Installati Details BM® Installation Ma BM® Installation Manage Disk Space Informatio	ion Manager beca nager 1.3.3 ar	use of dependencie	5			Expand All Collapse All Restore Default
] Show dependencies & Selected by Installati etails BM® Installation Manage M® Installation Manage isk Space Information	ion Manager beca nager 1.3.3 er nn	use of dependencie	5	Tabel	Quailable	Expand All Collapse All Restore Default
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Show dependencies Selected by Installati etails BM® Installation Ma M® Installation Manage Hisk Space Information Shared Resources Areaa	ion Manager beca nager 1.3.3 er Dn Volume C:	use of dependencie Required 162.1 KB 112.62	Temporary 825.19 MB	Total 825.35 MB	Available 7.25 GB 7.25 GB	Expand All Collapse All Restore Default
Show dependencies Selected by Installati etails BM® Installation Ma M® Installation Manage isk Space Information Shared Resources Area Installation Directory	ion Manager beca nager 1.3.3 er Dn Volume C: C:	use of dependencie Required 162.1 KB 1.12 GB	Temporary 825.19 MB 43.74 MB	Total 825,35 MB 1.16 GB	Available 7.25 GB 7.25 GB	Expand All Collapse All Restore Default
Show dependencies Selected by Installation Details BM® Installation Ma BM® Installation Manage Disk Space Information Shared Resources Area Installation Directory	ion Manager beca nager 1.3.3 ar Dn Volume C: C:	use of dependencie Required 162.1 KB 1.12 GB	Temporary 825.19 MB 43.74 MB	Total 825.35 MB 1.16 GB	Available 7.25 GB 7.25 GB	Expand All Collapse All Restore Default
Show dependencies Show dependencies Selected by Installation Details BM® Installation Manage Disk Space Information Shared Resources Area Installation Directory	ion Manager beca nager 1.3.3 ar on Volume C: C:	use of dependencie Required 162.1 KB 1.12 GB	Temporary 825.19 MB 43.74 MB	Total 825.35 MB 1.16 GB	Available 7.25 GB 7.25 GB	Expand All Collapse All Restore Default

To install all Lotus Connections components, ensure that all check boxes are selected and then click Next to continue.

🖄 IBM Installation Manager	
Install Packages Fill in the configurations for the packages. Install Licenses Loca	tion Features Summary
ASConfiguration Copology Configuration Configuration Content Store Configuration Notification Configuration Notification Configuration	WAS Configuration  WAS Selection Select WebSphere Application Server install location:  C(\TEMI\WebSphere\AppServer Browse Select Deployment Manager profile:  DemorOl  Host Name:  connections.example.com Deployment Manager Information These credentials should already exist for the chosen Profile. Administrator user ID:  wasadmin Administrator password:  soOAP port number: 8879 Validate Validate
0	< Back Next > Install Cancel

Now we need to provide the installer details of the Deployment Manager. To do so, provide the location to the Application Server as shown above. The Deployment Manager will be detected. Input the hostn connections.example.com, and the Deployment Manager administrator and password. If your configuration is planned to be deployed with a third-party security suite, such as Tivoli Access Manager, SiteMin SPIECO. It is user important that the obtaining the user appendix of the host has a DAB and a Deployment Manager administrator range administrator. Click the access Manager, SiteMin SPIECO.	ame, ider or
Validation successful!	
Deployment Manager Information	
Install Packages       Fill in the configurations for the packages.       Install     Licenses       Location     Features	
Common Configurations       Topology Configuration         WaSS Configuration       Topology Configuration         Context Store Configuration       Choose your type of deployment:         Shall Deployment - Features installed into the same cluster       Choose your type of deployment:         Shall Deployment - Features installed into the same cluster       Choose your type of deployment:         Shall Deployment - Features grouped into several clusters       Cluster Name:         Specify Clasture Cluster name       Specify Clasture Cluster name         Specify Clasture Cluster name:       Specify Clasture Cluster Name         Specify Clasture Cluster Name       Specify Clasture Cluster Name         Specify Clasture Cluster Name       Specify Clasture Cluster Name         S	
Image: Second	

Select the Small Deployment check box from the above options. This indicates that all applications will be installed into the same cluster. You must name the cluster. In the above example, the name is simply LotusConnections. Ensure that the node connectionsNode01 is also selected from the Node Selection section. Click Next to continue.

Install Licenses Loca	tion Features	Summary	>0			
Common Configurations	Common Configurati Database Configuration	ons				
Topology Configuration     Database Configuration     Ontent Store Configuration     Ontent Store Configuration     Notification Configuration	DB Location Are all Lotus Conn Yes, they are No, they are o	ections features using on the same database n different database i	the same database serve instance. nstances.	?		<u>*</u>
	Database Type Select database DB2 Universal D	:ype: atabase(TM)				
	Database Server Database server db.example.com Port: S0000 JDBC driver locat	er Information host name: n ion:				
	C:\IBM\JDBC_D Feature Databa	rivers se Information password for all featu	Browse gres.			
	Feature	DB Name	User ID	Password		
	Activities	OPNACT	LCUSER	•••••		
	Blogs	BLOGS	LCUSER			
	Communities	SNCOMM	LCUSER			
	Communities	SNCOMM	LCUSER		_	

In this deployment, all features are using the same database server; therefore, select the Yes check box above. Set DB2 as the database type and provide the database server information as shown. Next, select the check box to use the same password for all features and supply the passwords for the databases in the appropriate fields.

# Feature Database Information

☑ Use the same password for all features.

Feature	DB Name	User ID	Password
Activities	OPNACT	LCUSER	•••••
Blogs	BLOGS	LCUSER	•••••
Communities	SNCOMM	LCUSER	•••••
Bookmarks	DOGEAR	LCUSER	•••••
Files	FILES	LCUSER	•••••
Forums	FORUM	LCUSER	•••••
Homepage	HOMEPAGE	LCUSER	•••••
Profiles	PEOPLEDB	LCUSER	•••••
Wikis	WIKIS	LCUSER	•••••

Validate

Click Validate to verify that the details provided are correct. The following dialog is displayed:



Click  $\mathbf{OK}$  and  $\mathbf{Next}$  to continue to the next panel.

🖄 IBM Installation Manager		
Install Packages Fill in the configurations for the packages. Install Licenses Loca	tion Features Summary	
WAS Configuration     Topology Configuration     Database Configuration     Solution     Configuration     Notification Configuration     Notification Configuration	Content Store Configuration         Shared Content Store         Contents that are shared among all nodes. Please make sure they can be visited from each node in the cluster. Select a network share location:         C:\UBM\LotusConnections\data\shared         Local Content Store         Contents that are stored locally on each node. Please make sure the path specified exists on all nodes in the cluster. Select a local directory:         C:\UBM\LotusConnections\data\Jocal         Validate	
0	< Back Next > Install	Cancel

Here we are providing the locations for the local and shared data stores. As this is a small deployment, both of these locations are local as shown above. Click Validate again to validate these locations.



Click OK and Next to continue.

🚊 IBM Installation Manager	
Install Packages Fill in the configurations for the packages. Install Licenses Loca	tion Features Summary
Common Configurations     WAS Configuration     Database Configuration     Content Store Configuration     Notification Configuration     Notification Configuration	Common Configurations         Notification Configurations         Notification Solution         Notification solution :            WebSphere Java Mal Session - Use a single mail server for all notifications            WebSphere Java Mal Session - Use a single mail server for all notifications            WebSphere Java Mal Session - Use a single mail server for all notifications             WebSphere Java Mal Session - Use a single mail server for all notifications             DNS MX Records - Use information from DNS to determine which mail servers to use             Do not enable notification             ShtTP Server Information             Specify the properties of the SMTP messaging server:             mail.example.com             This SMTP server requires authentication:             User ID:             mail.example.com             Encrypt outgoing mail traffic to the SMTP messaging server using SSL.             Pot (default for non-SSL is 25, SSL is 465):             Z5
0	< <u>Back</u> <u>N</u> ext > <u>Install</u> Cancel

The above panel is the final panel before a summary of items to install is displayed. Provide details of your mail server. In this instance, the Java mail session is selected. Provide the location to the SMTP messaging server and the user ID required to use this server. You might also need to select the Encrypt check box if sending mail over SSL. Click **Next** to continue to the summary panel.

INSTAIL PACKAGES Review the summary information. Click Back to make changes or click Install. Install Licenses Location Features Summary		-
Instant         Location         Features         Location           Package Group Name:         IBM® Lotus Connections         Installation Directory:         C:\IBM\LotusConnections           Shared Resources Directory:         C:\IBM\SSPShared         Packages		
Packages		
Environment English	Disk Space Information Total Available Space	
Repository Information	C: 17.78 GB Total Download Size: 851.49 MB Total Installation Size: 1.85 GB	

The above panel summarizes what is about to be installed on this system. Verify that this information is correct and click Install to start the installation.

Environment	Disk Space Information	
English	Total Available Space	
	C: 17.78 GB	
	Total Download Size: 851.49 MB Total Installation Size: 1.85 GB	
Repository Information		
Installing.: Retrieving files. 134 MB of 764 MB (18%) completed.	Pause Down	nload <u>C</u> ancel

The progress bar keeps you informed as to the installation's progress. After installation is completed, the following summary panel is displayed. All packages should be installed successfully as shown.

BM Installation Manager		
Install Packages		-
	The packages are installed. Mew Log File	
	Install results : News installed successfully. Search installed successfully. Profiles installed successfully. Activities installed successfully.	
	The following package was installed into package group IBM® Lotus Connections:	
	Core Features  Core Features  Core Search  Core Results	
	Activities     Blogs     Communities     Communities	
	Constants Consta	
	©₅ Mobile IIIs Profiles IIIs Wikis	
	Installation Manager was successfully installed into: C:\IBM\Installation Manager\eclipse	
	the files on the <u>Files for rollback</u> preference page.	
)		Finish

Click Finish to complete the installation of Lotus Connections. Note that there are a number of post installation tasks which must be performed to complete the configuration. Before beginning these tasks, you must restart the Deployment Manager for changes to take effect. After the Deployment Manager is restarted, follow these steps.

Configuring the HTTP Server

Before beginning this task, ensure that the IBM HTTP Administration server is started. The administration server must be started to synchronize configuration files between the HTTP Server and the Deployment Manager. To start the admin server on Windows, go to Start > Programs > IBM HTTP Server V7.0 > Start Admin Server. To start the admin server on Linux and AIX systems, use the terminal. Navigate to the HTTPServer/bin directory and issue the following command: Jadminctl start

Add Web Server as Unmanaged Node

After the administration server is started, open the WebSphere Administration Console and add the Web server to the cell as an unmanaged node. Open the WebSphere Administration Console at <a href="http://connections.example.com:9060/admin">http://connections.example.com:9060/admin</a>.

lodes				?
Nodes				
Use this page to manage nodes in computer system with a distinct IF nodes in this cell. The first node is clicking Add Node.	n the application ser > host address. The s the deployment m	rver environment. following table list anager. Add new i	A node corresponds to a is the managed and unr nodes to the cell and to	a physical nanaged this list by
Add Node Remove Node F	orce Delete Synch	nronize Full Resy	nchronize Stop	
66 # \$				
Select Name 🛟	Host Name 🗘	Version 🗘	Discovery Protocol 🗘	Status ሷ
You can administer the following	resources:			

Go to System Administration - Nodes and click the Add Node button:

C Managed no	de	
Specifies the within the dep maintains the add node util	creation of a managed node. A managed node contains an application server process th Joyment manager cell. The managed node is associated with a node agent process that i configuration for the node and controls its operation. Choosing this option results in run ity to federate an existing standalone application server.	at ru nning
🖲 Unmanaged	node	
Specifies the does not hav processes, su	creation of an unmanaged node. An unmanaged node represents a node in the topolog e an application server process or a node agent process. Unmanaged nodes are for othe ch as Web servers that exist on their own node in the topology.	y tha r sei
Next Cancel		
ot the unmanaged ne	ode option and click <b>Next</b> .	
-	-	
		2
es		e —
e <i>s</i>		<u>-</u> ۲
es		<u>د</u> –
es lodes > New		e –
es <del>lodes</del> > New		e =
es <del>lodes</del> > New Ise this page to vie	» or change the configuration for an unmanaged node. An unmanaged node is a node	e =
es todes > New Use this page to vie lefined in the cell to	» or change the configuration for an unmanaged node. An unmanaged node is a node pology that does not have a node agent running to manage the process. Unmanaged	e –
es lodes > New Jse this page to vie Jefined in the cell to lodes are typically u	w or change the configuration for an unmanaged node. An unmanaged node is a node pology that does not have a node agent running to manage the process. Unmanaged sed to manage Web servers.	e –
es todes > New Jse this page to vie lefined in the cell to todes are typically o	w or change the configuration for an unmanaged node. An unmanaged node is a node pology that does not have a node agent running to manage the process. Unmanaged sed to manage Web servers.	ε <u>–</u>
es Nodes > New Jse this page to vie Jefined in the cell to nodes are typically u Configuration	w or change the configuration for an unmanaged node. An unmanaged node is a node pology that does not have a node agent running to manage the process. Unmanaged ised to manage Web servers.	<u>د</u> –
es lodes > New Jse this page to vie lefined in the cell to lodes are typically u Configuration	w or change the configuration for an unmanaged node. An unmanaged node is a node pology that does not have a node agent running to manage the process. Unmanaged ised to manage Web servers.	<u>د</u> –
es lodes > New Ise this page to vie lefined in the cell to odes are typically u Configuration	w or change the configuration for an unmanaged node. An unmanaged node is a node pology that does not have a node agent running to manage the process. Unmanaged sed to manage Web servers.	< -
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Provide a name and host name of the HTTP server and click OK.

## 🖻 Messages

- ⚠ Changes have been made to your local configuration. You can:
- <u>Save</u> directly to the master configuration.
- <u>Review</u> changes before saving or discarding.

An option to synchronize the configuration across multiple nodes after saving can be enabled in <u>Preferences.</u>

Now click Save.

# Nodes

Use this page to manage nodes in the application server environment. A node corresponds to a physical computer system with a distinct IP host address. The following table lists the managed and unmanaged nodes in this cell. The first node is the deployment manager. Add new nodes to the cell and to this list by clicking Add Node.

Preferences

Ado	d Node Remove Node Fo	rce Delete Synchronize	Full Resynchi	ronize Stop	
D	6 # 7				
Select	Name 🛟	Host Name 🗘	Version 🗘	Discovery Protocol 💲	Status ሷ
You o	an administer the following r	esources:			
	connectionsCellManager01	connections.example.com	ND 7.0.0.11	тср	<b>⊕</b>
	connectionsNode01_	connections.example.com	ND 7.0.0.11	тср	<b>⊕</b>
	webserver	connections.example.com	Not applicable	тср	
<b>T</b> 1 1					

# Total 3

On the nodes panel, the Web server is displayed in the list above.

Add Web Server as a Server

Next, add the Web server as a server in the configuration. To do so, follow these steps:



Select the Web server node and provide the name of this server "webserver1" - this is the same name that is provided during the plug-ins installation on the Web server. Click Next to continue.

Server and select the Web server type Star 2: Select a Web server Web server	rresponds to the server that
→ Step 2: Select a Web server	
Select Template Ty	pe Description
Step 3: Enter the properties for the IHS Sys	stem The IHS Web Server Template

The IHS option is selected. Click Next.

Step 1: Select a	Enter the properties for the new Web server
server and select the Web server type	Enter the Web server properties.
Step 2: Select a	* Port
Web server template	* Web server installation location
Step 3: Enter the	C:\IBM\HTTPServer
properties for the new Web server	IBMHTTPServer7.0
Step 4: Confirm new Web server	* Plug-in installation location c:\IBM\HTTPServer\Plugins
	Application mapping to the Web server
	Enter the IBM Administration Server properties.
	* Administration Server Port 8008
	* Username ihsadmin
	* Password
	* Confirm password
	Use SSL

Provide all of the Web server details as indicated above and then click Next.



Confirm the new Web server and click Finish.

Nodes

# Messages New server is created successfully. Modify variables, resources, and other server configuration settings, such as message broker queue names before running the newly created server. Changes have been made to your local configuration. You can: Save directly to the master configuration. Review changes before saving or discarding. An option to synchronize the configuration across multiple nodes after saving can be enabled in <u>Preferences</u>. The server may need to be restarted for these changes to take effect.

Now save this change. Before proceeding, do a full synchronize between nodes in the deployment.

Messages
 Successfully initiated synchronization of the repository on node
 connectionsNode01 with the deployment manager's repository.

Nodes
Use this page to manage nodes in the application server environment. A node corresponds to a physical
computer system with a distinct IP host address. The following table lists the managed and unmanaged
nodes in this cell. The first node is the deployment manager. Add new nodes to the cell and to this list by
clicking Add Node.
 Preferences

? -

Ad	d Node Remove Node Fo	rce Delete Synchronize	Full Resynch	ronize Stop	
Q	6 ** *				
Selec	t Name 🛟	Host Name 🗘	Version 🗘	Discovery Protocol 🗘	Status ሷ
You	can administer the following r	esources:			
	connectionsCellManager01	connections.example.com	ND 7.0.0.11	тср	↔
	connectionsNode01_	connections.example.com	ND 7.0.0.11	тср	••
	webserver	connections.example.com	Not applicable	тср	
Tota	13				

Return to Servers - Server Types - Web Servers. Generate and propagate the plug-in file to the Web server.

/eb servers						?.
	🖯 Me	ssages				
		PLGC00051: Plug-in co profiles\Dmgr02\config\ vebserver1\plugin-cfg.x	onfiguration cells\connec ml	file = C:\IBM\WebSphere\Ap tionsCell01\nodes\webserver	pServer r\servers	
	i. s	PLGC0052I: Plug-in co erver. connectionsCell01	onfiguration L.webserver.	file generation is complete f webserver1.	or the Web	
Web server	5					
Use this pag	je to vi	ew a list of the installed	Web server	′S,		
Preferen	es.					
Generate	Plug-in	Propagate Plug-in	New Del	ete Templates Start	Stop Te	rminate
	± #₽					
Select Nam	e 🛟	Web server Type 💲	Node 🗘 🔤	Host Name 💲 _	Version 🔶	Status ሷ
You can ad	ministe	er the following resource	s:			
	erver1	IBM HTTP Server	webserver	connections.example.com	Not applicable	€>
Total 1						

Do this by selecting the check box besides webserver1 and then click the Generate Plug-in button.

eb servers						?.
	🖯 Me	ssages				
	\ \ \ \P	PLGC0062I: The plug VebSphere\AppServer\p odes\webserver\server lugins\config\webserve	-in configura profiles\Dmg s\webserver r1\plugin-cfi	tion file is propagated from p02\config\cells\connections 1\plugin-cfg.xml to c:\IBM\H g.xml on the Web server cor	C:\IBM Cell01 ITTPServer nputer.	
	fo	PLGC0048I: The prop r the Web server, conn	agation of th ectionsCell0	ne plug-in configuration file i 1.webserver.webserver1.	s complete	
Web serv	ers					
Use this p	bage to vie	ew a list of the installed	l Web server	rs.		
🕀 Prefere	ences					
Genera	te Plug-in	Propagate Plug-in	New Del	ete Templates Start	Stop Te	rminate
GC	+++ +₽ +₽					
Select Na	ame 🛟	Web server Type 💲 _	Node 😂 🔤	Host Name 🗘 _	Version $\Diamond_{-}$	Status ሷ
You can	administe	r the following resource	151			
	ebserver1	IBM HTTP Server	webserver	connections.example.com	Not applicable	€
Total 1						

Select the check box again and click Propagate Plug-in.

eb servers	?
Web compare > websoment	
web servers > webserver1	
Use this page to configure a web server that provid	es HITP and HITPS support to application servers.
Runtime Configuration	
General Properties	Configuration settings
Web server name	Web Server Virtual Hosts
webserver1	Global Directives
Туре	
IBM HTTP Server	Additional Properties
* Port	Log file
80	Configuration File
* Web server installation location	Plug-in properties
C:/IBM/HTTPServer	Remote Web server management
* Configuration file name	Custom properties
\${WEB_INSTALL_ROOT}/conf/httpd.cor Edit	
* Service name	
IBMHTTPServer7.0	
Apply OK Reset Cancel	

Click webserver1 and then select the Plug-in properties link as shown above.

Repository copy of Web server plug-in files:	
* Plug-in configuration file name	
plugin-cfg.xml View	
Automatically generate the plug-in configuration file	
Automatically propagate plug-in configuration file	
* Plug-in key store file name	
plugin-key.kdb	
Manage keys and certificates	
Copy to Web server key store directory	

From the "Repository copy of Web server plug-in files" section, click Copy to Web server key store directory as shown above.

Ξ	Messages
	PLGC00641: The plug-in keyring file is propagated from C:\IBM\WebSphere \AppServer\profiles\Dmgr01\config\cells\connectionsCell01\nodes\webserver\servers \webserver1\plugin-key.kdb to c:\IBM\HTTPServer\Plugins\config\webserver1\plugin- key.kdb on the Web server computer.
	PLGC00691: The propagation of the plug-in keyring is complete for the Web server. connectionsCell01.webserver.webserver1.

The following message is displayed, indicating the successful copying of these keys. Restart the Web server for the plug-in changes to take effect.

Configuring IBM HTTP Server for SSL

To support SSL, create a self-signed certificate and then configure IBM HTTP Server for SSL traffic. If you use this certificate in production, users might receive warning messages from their browsers. In a typical production deployment, you would use a certificate from a trusted certificate authority.

he first step is to cre	eate a key file. Start the IKEYMAN utility. To do so, double-click the ikeyman.bat file, located in C:\IBM\HTTPServer\bin (c	r ikeyman.sh from /opt/IBM/HT	TPServer/bin on a Linux\AlX syste
he following panel is	s displayed when you launch this utility.		
🔒 IBM Key Manage	ement		
Key Database <u>F</u> ile	<u>C</u> reate <u>V</u> iew <u>H</u> elp		
🗅 🚅 日			
	Key database information		
DB-Type:			
File Name:			
Token Label:			
	Key database content		
Personal Certific	ates 🗸 🗸	Receive	
		Delete	
		Vie <u>w</u> /Edit	
		Import	
		Recre <u>a</u> te Request	
		Rena <u>m</u> e	
		New Self-Signed	
		Extract Certificate	
fo start, please se	lect the Kev Database File menu to work with a kev database		
	,		

Select Key Database File > New...

🚨 IBI	M Key Manage	ment				
Key E	)atabase <u>F</u> ile	Create	View	He	elp	
D	<u>N</u> ew		Ctrl	-N		
2	O Create a n	ew key da	atabase	file		 
*	New Provide	r	Ctrl	-E		
	<u>C</u> lose					

Ensure the key database type is selected as CMS. Input a name for the key file and location to store it.

New		×
Key database type	CMS	
<u>F</u> ile Name:	webserver-key.kdb	<u>B</u> rowse
Location:	C:\IBM\Keyfiles	J
	<u>O</u> K <u>Cancel</u>	

Enter a password and select the stash password to a file check box.

Password Prompt	×
Password:	•••••
Confirm Password:	••••••
Expiration time	60 Days
<u>o</u> k	<u>R</u> eset <u>C</u> ancel

You are returned to the IKEYMAN panel with the webserver-key.kdb opened.

🎒 IBM Key Mana	gement - [C:\IBM\Keyfiles\webserver-key.kdb]	
Key Database <u>F</u> i	e <u>C</u> reate <u>V</u> iew <u>H</u> elp	
	Key database information	
DB-Type:	CMS	
File Name:	C:\IBM\Keyfiles\webserver-key.kdb	
Token Label:		
	Key database content	
Personal Certi	īcates 🔹	Receive
		Delete
		Vie <u>w</u> /Edit
		Im <u>p</u> ort
		Recreate Request
		Rename
		New Self-Signed
		Extract Certificate
The requested a	ction has successfully completed!	

Create a self-signed certificate. To do so, select Create > New Self-Signed Certificate...

🌆 IBM Key Manag	ement - [(	C:\IBM\	Keyfiles\webserve	er-key.kdb	]
Key Database <u>F</u> ile	Create	⊻iew	<u>H</u> elp		
	🥵 N	ew Ce <u>r</u> t	ificate Request	Ctrl-R	
	- 其 N	ew Se <u>l</u> f	Signed Certificate	e Ctrl-L	Kev database in
DB-Type:	CMS	Creat	te a new self-signe	d certificate	9
File Name:	C:\IBM\Ke	yfiles\w	ebserver-key.kdb		
Token Label:					

Input the label and other details as appropriate. Click  $\mathbf{OK}$  to save the certificate.

	cate 🔀
lease provide the following:	
<u>K</u> ey Label	SelfSignedCertificate
Version	X509 V3 🔻
K <u>e</u> y Size	1024 💌
<u>S</u> ignature Algorithm	SHA1WithRSA 💌
Common Name (optional)	connections.example.com
Organization (optional)	
Organizational Unit (optional)	
Locality (optional)	
State/Province (optional)	
Zipcode (optional)	
Country or region (optional)	
Validity Period	365 Days

The certificate now appears in the key file as shown.

DB-Type: CHS Comparison Control Comparison C	CMS CUBMIKeyfilestwebserver-key.kdb tt rtificates dCertificate IBM HTTP Server, if started. After you have verified that the server is stopped, log in to the WebSphere Administration Console and servers panel, select the webserver1 link. IBM HTTP Server, if started. After you have verified that the server is stopped, log in to the WebSphere Administration Console and servers panel, select the webserver1 link. IBM HTTP Server Type QNode Q Host Name Q Version QStatus Q administer the following resources: Desire Type QNode Q Host Name Q Version QStatus Q administer the following resources: Desire TiBM HTTP Server Version QStatus Q administer the following resources: Desire TiBM HTTP Server Version QStatus Q administer the following resources: Desire TiBM HTTP Server Version QStatus Q administer the following resources: Desire TiBM HTTP Server Version QStatus Q administer the following resources: Desire TiBM HTTP Server Version QStatus Q applicable Server Type QNode QHost Name Q Version QStatus Q applicable Server Type QNode QHost Name Q Version QStatus Q applicable Server Version	Receive Delete View/Ed
te Name: CUBDMX-opfiles/webserver-key.kdb  tersonal Cartificate	Image: CliBMLKeyfilestwebserver-key.kdb         ertificates         ertificate         IBM HTTP Server, if started. After you have verified that the server is stopped, log in to the WebSphere Administration Console and servers panel, select the webserver1 link.         Image: Transmission of the installed Web servers.         res         e Plug-in       Propagate Plug-in         New       Delete         Templates       Starts         e Web server Type ©_ Node ©_ Host Name ©_ Version ©_ Status ©         idminister the following resources:       Image: Templates         istance:       Ibit HTTP Server         webserver Type ©_ Node ©_ Host Name ©_ Version ©_ Status ©         idminister the following resources:       Ibit HTTP Server         upplicable       applicable         upplicable       applicable         upplicable       applicable	Receive Delete View/Ed
ken Label:   SetSignedCortificates   Receive   SetSignedCortificates SetSignedCortificates SetSignedCortificates Receive SetSignedCortificates SetSignedCortificates Receive SetSignedCortificates SetSignedCortificates SetSignedCortificates SetSignedCortificates Receive SetSignedCortificates SetSignedCortificates SetSignedCortificates SetSignedCortificates SetSignedCortif	It       Key database content         ertificates       It         dCertificate       It         IBM HTTP Server, if started. After you have verified that the server is stopped, log in to the WebSphere Administration Console and servers panel, select the webserver1 link.         IFF       age to view a list of the installed Web servers.         nees       Plog-in         Propagate Plug-in       New         Delete       Templates         starts       Stop         administer the following resources:       Version C, Status @         idminister the following resources:       Not         administer the following resources:       Not         applicable       applicable         guration File link to open the httpd.conf from the WebSphere Administration Console.	Receive Delete View/Ed
read Cartificates       Receive         etBSignedCertificate       Delete         update       ViewEat         atop the IBM HTTP Server, if stanted. After you have verified that the server is stopped, log in to the WebSphere Administration Console and configure the       the Web server panel, select the webserver1 link.         enverse       Image: Select the webserver1 link.       Image: Select the webserver1 link.         enverse       Image: Select the webserver1 link.       Image: Select the webserver1 link.         enverse       Image: Select the webserver1 link.       Image: Select the webserver1 link.         enverse       Image: Select the webserver1 link.       Image: Select the webserver1 link.         enverse       Image: Select the webserver1 one does: example.com Net WebSphere Administration Console.       Image: Select the link to open the httpd: confirme the WebSphere Administration Console.         exercise?       Image: Select the link to open the httpd: confirme the WebSphere Administration console.       Image: Select the link to open the httpd: confirme the WebSphere Administration console.         etail page to configure a Web server that provides HTTP and HTTPS support to applicable is else links links       Image: Select the links         etail page to configure a web server that provides HTTP and HTTPS support to applicable is else links links       Image: Select the links         etail page to configure as show:       Select the links       Select the links	Key database content         ertificate         dCertificate         IBM HTTP Server, if started. After you have verified that the server is stopped, log in to the WebSphere Administration Console and servers panel, select the webserver1 link.         IBM HTTP Server, if started. After you have verified that the server is stopped, log in to the WebSphere Administration Console and servers panel, select the webserver1 link.         Image to view a list of the installed Web servers.         nees         Propagate Plug-in New Delete Templates Start Stop Terminate         Web server Type Q. Node Q. Host Name Q. Version Q. Status Q         Moting resources:         Delete Templates Not Applicable         Web server Type Q. Node Q. Host Name Q. Version Q. Status Q         Mot Delete Templates         Web server Type Q. Node Q. Host Name Q. Version Q. Status Q         Mot Delete Templates         Web server Type Q. Node Q. Host Name Q. Version Q. Status Q         Mot Delete Templates         generation File link to open the httpd.conf from the WebSphere Administration Console.	Receive Delete View/Edit
anal Certificates <ul> <li>Receive</li> <li>Delete</li> <li>VergEdit.</li> </ul> SignedCertificate        Supersonal Select the webserver1 link.       every       b server:       this page to view a list of the installed Web servers.       Preferences       Certain Console and configure the I       b server:       this page to view a list of the installed Web servers.       Preferences       certain Console and very console and configure the I       the server T       this page to view a list of the installed Web servers.       Preferences       certain Console and configure the I       certain Configuration Console       certain Configuration Setting       vis action Discussion       configuration Setting       vis action of from the WebSphere Administration Console       configuration Properties       deletain Discussion       vis action Console and Properties       deletain	ertificates         dCertificate         IBM HTTP Server, if started. After you have verified that the server is stopped, log in to the WebSphere Administration Console and servers panel, select the webserver1 link.         ars         age to view a list of the installed Web servers.         nces         e Plug-in         Propagate Plug-in         New         Delete         Templates         Status         addiminister the following resources:         Deriver         IBM HTTP Server         webserver         connections.example.com         Not         applicable	Receive
elefSignedCertificate       Delete         ister       VergeLift.         stop the IBM HTTP Server, if started. After you have verified that the server is stopped, log in to the WebSphere Administration Console and configure the "the Web servers panel, select the webserver1 link.         Security:       Terminate         Teb servers       is the ipage to view a list of the installed Web servers.         Preferences       Immerate Plugpin Perpagets Plugpin New Delets Templates Start Stop Terminate         Preferences       Web server Type 0 Node 0 Host Name 0 Version 0 Status 0         You can administer the following resources:       Immerate Plugpin Perpagets Plugpin New Delets Templates Or Not pipitable         Total 1       Servers       Web server is the popy of the popy to application servers.         If web server I       this to open the httpd.conf from the WebSphere Administration Console.         Servers?       Second from the WebSphere Administration Servers.         If generate Properties       Web server name         Web server I       Web server that provides HTTP and HTTPS support to application servers.         If generate Properties       Additional Properties         Web server name       Web Server name         Web server name       Seconfiguration File         Web server name       Seconfiguration File         Vigretion       Seconfiguration File <td>dCertificate         IBM HTTP Server, if started. After you have verified that the server is stopped, log in to the WebSphere Administration Console and servers panel, select the webserver1 link.         age to view a list of the installed Web servers.         nces         e Plug-in       Propagate Plug-in         e Version ©_ Status ©         idminister the following resources:         berver?         idminister the following resources:         berver?         idminister the following resources:         berver?         istender the thtpd.conf from the WebSphere Administration Console.</td> <td>Delete View/Edit.</td>	dCertificate         IBM HTTP Server, if started. After you have verified that the server is stopped, log in to the WebSphere Administration Console and servers panel, select the webserver1 link.         age to view a list of the installed Web servers.         nces         e Plug-in       Propagate Plug-in         e Version ©_ Status ©         idminister the following resources:         berver?         idminister the following resources:         berver?         idminister the following resources:         berver?         istender the thtpd.conf from the WebSphere Administration Console.	Delete View/Edit.
Impact Number Num Number Num Number Num Number Number Number Number Number Number N	IBM HTTP Server, if started. After you have verified that the server is stopped, log in to the WebSphere Administration Console and servers panel, select the webserver1 link.	View/Edit
<pre>term of the IBM HTTP Server, if started. After you have verified that the server is stopped, log in to the WebSphere Administration Console and configure the W the Web servers panel, select the webserver1 link.  ***** *****************************</pre>	IBM HTTP Server, if started. After you have verified that the server is stopped, log in to the WebSphere Administration Console and servers panel, select the webserver1 link.	Vie <u>w</u> /Edit
<pre>stop the IBM HTTP Server.if started. After you have verified that the server is stopped, log in to the WebSphere Administration Console and configure the Web servers panel, select the webserver1 link.</pre>	IBM HTTP Server, if started. After you have verified that the server is stopped, log in to the WebSphere Administration Console and servers panel, select the webserver1 link.	d configure the We
the Web servers panel, select the webserver1 link.	servers panel, select the webserver1 link.	
the Web servers panel, select the webserver link.	servers panel, select the webserver1 link.	
sectors       Image: Sector Sect	age to view a list of the installed Web servers. nces e Plug-in Propagate Plug-in New Delete Templates Start Stop Terminate ## *** me  Web server Type  Node  Host Name  Version  Status dminister the following resources: beenver1 IBM HTTP Server webserver connections, example.com Not applicable guration File link to open the httpd.conf from the WebSphere Administration Console.	
Servers   Yeb server   Servers   Generate Plagein Propagate Plagein New Delete Templates Start Stop Terminate   Complete Propagate Plagein New Delete Templates Start Stop Status Completes   Complete Propagate Plagein New Delete Templates Start Stop Status Completes   Complete Propagate Plagein New Delete Templates Start Stop Status Completes   Complete Propagate Plagein New Delete Templates Start Stop Status Completes   Complete Propagate Plagein New Delete Templates   Configuration File Ink to open the httpd.conf from the WebSphere Administration Console.   Servers Setter New Delete Server that provides HTTP and HTTPS support to application servers.   Servers Setter New Delete Server that provides HTTP and HTTPS support to application servers.   Servers Propagate Doperties   Veb server name   Veb server name   Setter New Propagates   Configuration File   Port   Bio HTTP Server   Veb server installation location   Custom properties   Custom properties <tr< td=""><td>ars age to view a list of the installed Web servers. nces a Plug-in Propagate Plug-in New Delete Templates Start Stop Terminate a Plug-in Propagate Plug-in New Delete Templates Start Stop Terminate a Plug-in Propagate Plug-in New Delete Templates Start Stop Terminate a Plug-in Propagate Plug-in New Delete Templates Start Stop Terminate a Plug-in Propagate Plug-in New Delete Templates Start Stop Terminate a Plug-in Propagate Plug-in New Delete Templates Start Stop Terminate a Plug-in Propagate Plug-in New Delete Templates Start Stop Terminate a Plug-in Propagate Plug-in New Delete Templates Start Stop Terminate a Plug-in Propagate Plug-in New Delete Templates Start Stop Terminate a Plug-in Propagate Plug-in New Delete Templates Start Stop Terminate a Plug-in Propagate Plug-in New Delete Templates Start Stop Terminate a Plug-in Propagate Plug-in New Delete Templates Start Stop Terminate a Plug-in Propagate Plug-in New Delete Templates Start Stop Terminate a Plug-in Propagate Plug-in New Delete Templates Start Stop Terminate a Plug-in Propagate Plug-in New Delete Templates Start Stop Terminate a Plug-in Propagate Plug-in New Delete Templates Start Stop Terminate a Plug-in Propagate Plug-in New Delete Templates Start Stop Terminate a Plug-in Propagate Plug-in New Delete Templates Start Stop Terminate a Plug-in Propagate Plug-in New Delete Templates Start Stop Terminate a Plug-in Propagate Plug-in New Delete Templates Start Stop Terminate a Plug-in Propagate Plug-in New Delete Templates Start Stop Terminate a Plug-in Propagate Plug-in New Delete Templates Start Stop Terminate a Plug-in Propagate Plug-in New Delete Templates Start Stop Terminate a Plug-in Propagate Plug-in New Delete Templates Start Stop Terminate a Plug-in Plug-in New Delete Templates Start Stop Terminates Start Stop Termin</td><td></td></tr<>	ars age to view a list of the installed Web servers. nces a Plug-in Propagate Plug-in New Delete Templates Start Stop Terminate a Plug-in Propagate Plug-in New Delete Templates Start Stop Terminate a Plug-in Propagate Plug-in New Delete Templates Start Stop Terminate a Plug-in Propagate Plug-in New Delete Templates Start Stop Terminate a Plug-in Propagate Plug-in New Delete Templates Start Stop Terminate a Plug-in Propagate Plug-in New Delete Templates Start Stop Terminate a Plug-in Propagate Plug-in New Delete Templates Start Stop Terminate a Plug-in Propagate Plug-in New Delete Templates Start Stop Terminate a Plug-in Propagate Plug-in New Delete Templates Start Stop Terminate a Plug-in Propagate Plug-in New Delete Templates Start Stop Terminate a Plug-in Propagate Plug-in New Delete Templates Start Stop Terminate a Plug-in Propagate Plug-in New Delete Templates Start Stop Terminate a Plug-in Propagate Plug-in New Delete Templates Start Stop Terminate a Plug-in Propagate Plug-in New Delete Templates Start Stop Terminate a Plug-in Propagate Plug-in New Delete Templates Start Stop Terminate a Plug-in Propagate Plug-in New Delete Templates Start Stop Terminate a Plug-in Propagate Plug-in New Delete Templates Start Stop Terminate a Plug-in Propagate Plug-in New Delete Templates Start Stop Terminate a Plug-in Propagate Plug-in New Delete Templates Start Stop Terminate a Plug-in Propagate Plug-in New Delete Templates Start Stop Terminate a Plug-in Propagate Plug-in New Delete Templates Start Stop Terminate a Plug-in Propagate Plug-in New Delete Templates Start Stop Terminate a Plug-in Propagate Plug-in New Delete Templates Start Stop Terminate a Plug-in Propagate Plug-in New Delete Templates Start Stop Terminate a Plug-in Plug-in New Delete Templates Start Stop Terminates Start Stop Termin	
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Preferences          Select Name        New Delete Templates Start       Stop Terminate         Select Name        Web server Type        Node        Host Name        Version        Status          You can administer the following resources:       Image: Status	administer the following resources: beerver? IBM HTTP Server webserver connections.example.com Not applicable guration File link to open the httpd.conf from the WebSphere Administration Console.	
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Select Name Web server Type Node Host Name    You can administer the following resources:   Image: Select Name Web server webserver   Image: Select Name Web Server Name   Image: Select Name Name	Image: Second	
Select Name Web server Type Node Hot Name C Version S     You can administer the following resources:     webservers:     webserver:                    You can administer the following resources:        You can administer the following resources:                            You can administer the following resources:               You can administer the following resources:   <	me        Web server Type        Node        Host Name        Version        Status          administer the following resources:       bserver       connections.example.com       Not applicable         BM HTTP Server       webserver       connections.example.com       Not applicable         guration File link to open the httpd.conf from the WebSphere Administration Console.	
You can administer the following resources:    wbserver: texts are connections.example.com Not applicable    Total 1 Total 1 text be configuration File link to open the httpd.conf from the WebSphere Administration Console. text be avery > webserver1 text be avery > webserver1 text be avery a web server that provides HTTP and HTTPS support to application servers. onfiguration Configuration settings web server name webserver1 Yupe [EMMITTP Server Yupe [EMITTP Server Yupe (Configuration Properties Web Server Virtual Hosts global Directives Additional Properties Example.com file Example.com file between stallation location (Configuration properties Example.com file text dots a server istallation location (Configuration properties Example.com file text dots a server and web server configuration file between server as shown. between server a shown. between a shown. between server a shown. between server a shown. between a shown are shown are shown. between a shown are shown. between a shown are shown. between are shown	administer the following resources: bserver] IBM HTTP Server webserver connections.example.com Not applicable guration File link to open the httpd.conf from the WebSphere Administration Console.	
webserver1       IBM HTTP Server       webserver connections.example.com       Not applicable         Total 1         total 1    tech configuration File link to open the httpd.conf from the WebSphere Administration Console.          eth spage to configure a Web server that provides HTTP and HTTPS support to application servers.         onfiguration         Ceneral Properties       Configuration settings         Web server name       Web Server Virtual Hosts         Slobal Directives       Additional Properties         Type       Slobal Directives         Additional Properties       Slobal Directives         * Web server installation location       Slobal Directives         * Web server installation location       Slobal Directives         * Web server installation location       Slobal properties         • Custom properties       Secure reansecent         • Use server installation location       Slobal properties         • Loca file       Slobal properties	Diserver         IBM HTTP Server         webserver         connections.example.com         Not applicable         #           guration File link to open the httpd.conf from the WebSphere Administration Console.         File link to open the httpd.conf from the WebSphere Administration Console.         Image: Console in the ima	
Total 1 <pre>k the Configuration File link to open the httpd.conf from the WebSphere Administration Console. <pre>chis page to configure a Web server that provides HTTP and HTTPS support to application servers. anfiguration </pre> <pre> Configuration settings </pre> <pre> Veb server name </pre> <pre> Veb server name </pre> <pre> Veb server runne </pre> </pre> <pre> Veb server runne <td>guration File link to open the httpd.conf from the WebSphere Administration Console.</td><td></td></pre>	guration File link to open the httpd.conf from the WebSphere Administration Console.	
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Type       Additional Properties         IBM HTTP Server       Log file         * Port       End file         80       End file         * Web server installation location       End file         C:/IBM/HTTPServer       End file         .          a httpd.conf opens in the browser as shown.         Servers > webserver1 > \${WEB_INSTALL_ROOT}/conf/httpd.conf         a this page to view or modify the contents of the Web server configuration file.         onfiguration file	Imperties     Configuration settings       rver name     Web Server Virtual Hosts       ver1     Global Directives	
IBM HTTP Server       Image: Configuration File         * Port       Image: Configuration File         * Web server installation location       Image: Configuration File         C:/IBM/HTTPServer       Image: Configuration File         Image: Configuration opension       Image: Configuration file	diditional Perspection	
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Web server installation location     C:/IBM/HTTPServer     Custom properties     Cu	Configuration File	
Custom properties      Custom properties      Custom properties      Custom properties      conf poens in the browser as shown.      eb servers > webserver1 > \${WEB_INSTALL_ROOT}/conf/httpd.conf      set his page to view or modify the contents of the Web server configuration file.  Configuration file	avver installation location <u>Plug-in properties</u> /HTTDSavier              Remote Web server management	
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e this page to view or modify the contents of the Web server configuration file.	> <u>webserver1</u> > \${WEB_INSTALL_ROOT}/conf/httpd.conf	
Configuration file	to view or modify the contents of the Web server configuration file.	
	in file	
#		
# This is the main IBM HTTP server configuration file. It contains the # configuration directives that give the server its instructions.	are main IBM HTTP server configuration file. It contains the attinuities that give the server its instructions.	
# See <uklinto: dublib.boulder.ibm.com="" httpserv="" manual70=""></uklinto:> for detailed	L:nttp://publip.boulder.ibm.com/httpserv/manual70/> for detailed	
he bottom of the configuration, add the following lines to the http.conf:	f the configuration, add the following lines to the http.conf:	
LoadModule ibm_ssl_module modules/mod_ibm_ssl.so	dule ibm_ssl_module modules/mod_ibm_ssl.so	
<li>IfModule mod ibm ssl.c&gt;</li>		

Listen 0.0.0:443
<virtualhost *:443=""></virtualhost>
ServerName connections example com
SSLEnable
SSI Disable
Keyfile "C:\IBM\Keyfiles\webserver-key.kdb"
SSLStashFile "C:\IBM\Keyfiles\webserver-key.sth"
cron to the bottom of the configuration file. At the end of the nitpottom, and the above lines to load the SSL module using the key file we JUSt Created.
lick <b>OK</b> to save this change.
LoadModule ibm_ssl_module modules/mod_ibm_ssl.so
<pre><imvodule mod_iom_ssl.c=""> Listen 0.0.0:4443 </imvodule></pre>
ServerName connections.example.com SSLEnable contextual textual textua
Keyfile "C:\IBM\Keyfiles\ <u>webserver</u> -key. <u>kdb"</u> SSLStashFile "C:\IBM\Keyfiles\ <u>webserver</u> -key. <u>sth</u> "
Anglu OK Reset Cancel
Appiy OK Reset Cancel
start the IRM HTTP Server. To verify that the SSI settings took effect correctly enter https://connections.example.com in a browser. If the IRM HTTP Server name appears over https://connections.example.com in a browser. If the IRM HTTP Server name appears over https://connections.example.com in a browser. If the IRM HTTP Server name appears over https://connections.example.com in a browser. If the IRM HTTP Server name appears over https://connections.example.com in a browser. If the IRM HTTP Server name appears over https://connections.example.com in a browser. If the IRM HTTP Server name appears over https://connections.example.com in a browser. If the IRM HTTP Server name appears over https://connections.example.com in a browser. If the IRM HTTP Server name appears over https://connections.example.com in a browser. If the IRM HTTP Server name appears over https://connections.example.com in a browser. If the IRM HTTP Server name appears over https://connections.example.com in a browser. If the IRM HTTP Server name appears over https://connections.example.com in a browser. If the IRM HTTP Server name appears over https://connections.example.com in a browser. If the IRM HTTP Server name appears over https://connections.example.com in a browser. If the IRM HTTP Server name appears over https://connections.example.com in a browser.
ou might need to accept the certificate to your browser as it is not signed.



Add Security Exception	
You are about to override how Firefox identifies this site. Legitimate banks, stores, and other public sites will not as	< you to do this.
Server	
Location: https://connections.example.com/	<u>G</u> et Certificate
Certificate Status	
This site attempts to identify itself with invalid information.	⊻iew
Wrong Site	
Certificate belongs to a different site, which could indicate an identity theft. ${\bf Unknown\ Identity}$	
Certificate is not trusted, because it hasn't been verified by a recognized aut	hority.
Permanently store this exception	
Confirm Security Exception	on Cancel

WebSphere. software     IBM HTTP Server     IBM HTTP S	jools <u>H</u> elp	
Most Visited Getting Started   IBM HITTP Server     WebSphere.     software     IBM HITTP Server Version 7.0     Image: Administration     Center     Support     Release     Support	ample.com https://connections.example.com/ 🏠 ᠇ Google	
BMHTTP Server WebSphere. software IBM HTTP Server Version 7.0 IBM HTTP Server Version 7.0 Release Administration center Support notes	est Headlines	
WebSphere. software       Image: Software         IBM HTTP Server Version 7.0         Image: Administration center         Support notes	*	
WebSphere. software       Image: Support logical logic		
WebSphere. software       Sime         Image: software       Image: software         <		
WebSphere. software       Image: Support notes         Image: Support notes       Support notes		
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Administration <u>center</u> <u>Support</u> <u>notes</u>	🖉 <u>Information</u>   🕲   🖹 <u>Release</u>	
	center Support notes	

Adding Certificates to the WebSphere Trust Store

From the WebSphere Administration Console, go to Security > SSL Certificate and Key Management. Next, click the CelliDefaultTrustStore link as shown.

ertificate:	e and key managem	ent			
<mark>SL certific</mark> efines ke	<mark>cate and key manag</mark> vstore types, includi	ement > Key stores a	nd certificates (R), CMS, Java(TM), and all	truststore types.	
eystore us	sages				
SSL key	/stores	•			
Preferer	nces				
New Delete Change password Exchange signers					
elect Nan	me 🗘	Description 🗘	Management Scope 🗘	Path 🗘	
You can administer the following resources:					
	<u>SKeyStore</u>	CMSKeyStore for web server webserver1.	(cell):connectionsCell01: (node):webserver: (server):webserver1	\${CONFIG_ROOT}/cell /connectionsCell01 /nodes/webserver /servers/webserver1 /plugin-key.kdb	
	IDefaultKeyStore	Default key store for connectionsCell01	(cell):connectionsCell01	\${CONFIG_ROOT}/cell /connectionsCell01 /key.p12	
	IDefaultTrustStore	Default trust store for connectionsCell01	(cell):connectionsCell01	\${CONFIG_ROOT}/cell /connectionsCell01 /trust.p12	
		for connectionsCell01	/ IIX II	/connectionsCell /trust.p12	

From within CellDefaultTrustStore, click the Signer certificates link in the right hand pane.

ines keystore types, including cryptography, RACF(R), CMS, Java	(TM), and all truststore types.
eneral Properties	Additional Properties
Name	Cine en extitiente
CellDefaultTrustStore	Berronal
Description	<u>certificates</u>
Default trust store for connectionsCell01	Personal
Management scope	<u>certificate</u> <u>requests</u>
(cell):connectionsCell01	Custom
· · · · · · · · · · · · · · · · · · ·	properties

Add the webservers signer to the trust store by clicking the Retrieve from port button.

SSL certificate and key management
SSL certificate and key management > Key stores and certificates > CellDefaultTrustStore > Signer certificates
Manages signer certificates in key stores.
Preferences
Add Delete Extract Retrieve from port
Select Alias 🔿 Issued to 🌣 Finderprint (SHA Digest) 🌣
Specify the host name of the Web server and its SSL port (typically 443). Then click the <b>Retrieve Signer Information</b> button, which retrieves the information shown on the bottom of this screen shot. Provide an alias
for this signer certificate and click <b>OK</b> to add this certificate to the list of signers.
SSL certificate and key management
<u>SSL certificate and key management &gt; Key stores and certificates &gt; CellDefaultTrustStore</u> > <u>Signer certificates</u> > Retrieve from port
Makes a test connection to a Secure Sockets Layer (SSL) port and retrieves the signer from the
Server during the nationale.
* Host
connections.example.com
* Port 443
SSL configuration for outbound connection
CellDefaultSSLSettings 💌
* Alias webserver ssl
Retrieve signer information
- Retrigued cimer information
recureved signer intofMation Serial number
989854342
Issued to
CN=WebSphere Plugin Key, OU=SWG, O=IBM, C=US
Issued by
Chewebsphere Plugin Key, OU=SWG, O=IBM, C=US
4D:6D:53:ED:82:83:48:D4:58:AB:3F:3D:0A:D7:14:9E:68:68:85:7D
Validity period
Apr 26, 2012
Apply OK Reset Cancel
Save this change and restart the HTTD center to apply the changes
Update Web Addresses used by Lotus Connections to access Content
Using the weadmin client check out the Lotus Connections-config and to a temporary directory. From this directory undate all bref and ssl. bref values to reflect the bost name of the HTTP Server. Do not include any port
numbers.
An axample of this follows:
<pre><sloc:servicereference <="" bootstraphost="connections.example.com" bootstrapport="2811" clustername="LotusConnections" th=""></sloc:servicereference></pre>
<pre><sloc:hrefpathprefix>/activities</sloc:hrefpathprefix></pre>
<pre><sloc:static href="http://connections.example.com:9081" ssl_href="https://connections.example.com:9444"></sloc:static> <sloc:static href="http://connections.example.com:9081" ssl_href="https://connections.example.com:9444"></sloc:static></pre>
Convert the original values below of the neers ssi_neers from their default values above to their new values, in this case all that is done is to drop the port numbers 9081 and 9044 from these uns.
<pre><sloc:servicereference <="" bootstraphost="connections.example.com" bootstrapport="2811" clustername="LotusConnections" pre=""></sloc:servicereference></pre>
<pre><sloc:href></sloc:href></pre>
<pre><sloc:static href="http://connections.example.com" ssl_href="https://connections.example.com"></sloc:static></pre>
<pre><sloc:interservice href="https://connections.example.com"></sloc:interservice> </pre>
Repeat this process for all href and ssi_hrefs that are currently set to connections.example.com. After this process is complete, save the file and check it back in using the wsadmin client. After the file is checked in, resynchronize the node so that this change is pushed out.
This completes the Web server, SSL, and certificate configuration for this scenario. Now when the application is started, it can be accessed at <a href="http://connections.example.com/component">http://connections.example.com/component</a> where <a href="http://connections.example.com/component">component</a> where <a href="http://connections.example.com/component">http://connections.example.com/component</a> where <a href="http://connections.example.com/component">http://connections.</a>
The commands to perform the above tasks are shown below (the above updates take place after the check out command).



Before beginning this task, ensure to start Lotus Connections. For instructions, refer to the section in this article about starting and stopping Lotus Connections 3.0. After the deployment is started, verify that you can log in successfully to all components. It is a good idea to check the logs to ensure there are no errors occurring during the startup and verification.

Adding an Administrator to Blogs

1. Log in to the WebSphere Administration Console on connections.example.com at the url http://connections.example.com:9060/admin.

2. Go to Applications - Application Types Web - WebSphere Enterprise Applications and click the Blogs link.

Enterprise Applications ? -			
Enterprise Applications			
Use this page to manage installed applications. A single application can be deployed onto multiple servers.			
Start         Stop         Install         Update         Rollout Update         Remove File         Export         Export DDL         Export File			
Select	Name 🛟	Application Status 👲	
You can administer the following resources:			
	Activities	\$	
	Blogs	\$	
	Communities	<b>\$</b>	

From the list of options for this application select "Security role to user/group mapping" as shown.

nterprise Applications ?			
Enterprise Applications > Blogs Use this page to configure an enterprise application. the application or its modules.	Click the links to access pages for further configuring of		
Configuration Runtime			
General Properties	Modules		
* Name	Mapage Modules		
Blogs			
Application reference validation	Web Module Properties		
Issue warnings	Session management		
Datail Dura addia a	Context Root For Web Modules		
Detail Properdes	JSP and JSF options		
Target specific application status	Virtual hosts		
Startup behavior	Enterprise Java Bean Properties		
Application binaries			
Class loading and update detection	Detault messaging provider references		
Request dispatcher properties	Stateful session bean failover settings		
Security role to user/group mapping	Application profiles		
View Deployment Descriptor	Message Driven Bean listener bindings		
Last participant support extension	EJB JNDI names		

From the following panel, it is possible to map users and groups to different roles. In the below example there is no user assigned as admin. Click the check box beside admin and then click Map Users...
The state

ecurity	role to user/group	mapping		
ach ro user re a mult applica nform WebSp group: 'ail. All given t he acc	ble that is defined in gistry, accessIds: T i domain scenario. L ition start based on ation that is used for here default authout realm/unique@roup AuthenticatedInTru the access. AllAuthe tess.	the application or module must map to : the accessIds are required only when usin For all other scenarios the accessId will be the user or group name. The accessId vir or Java Platform, Enterprise Edition author ization engine. The format for the access ID. Entering wrong information in these fit stedRealms: This indicates that any valid nticated: This indicates that any valid use	a user or group f g cross realm co determined dur epresent the use ization when use ids is userrrealm elds will cause au user in the trust r in the current r	from the domain mmunication in ing the ar and group ng the n/uniqueUserID, uthorization to ed realms be ealm be given
Мар	Users Map Gro	ups Map Special Subjects 🔻		
D	6			
Select	Role	Special subjects	Mapped users	Mapped groups
	person	All Authenticated in Application's Realm		
	everyone	Everyone		
	metrics-reader	Everyone		
	admin	None		
	global-moderator	None		
	search-admin	None	wasadmin	
	widget-admin	None	wasadmin	

Enter the user name into the search string and click Search. When the required user is found, select their name and click the right-facing arrow to assign this user to the role specified.

2 -

terprise Applications		?
Enterprise Applications > Blogs	> <u>Security role to user/gro</u>	<u>up mapping</u> > Map users/groups
Use this page to search for users	or groups and add them to	o the selected roles.
■ admin		
Search and Select Users		
Select a user realm, specify the i	number of results to display	y, enter a search string (use * for wildcard)
User realm	in the Available list and ad	a dem to die Mapped to fole list.
ldap.example.com 💌		
Display a maximum of 20	results	
Search string		
jcollins		
Search		
Available:		Selected:
k the <b>OK</b> button below to return to	the user - role mapping pane	I.
Available:	<b>b</b> <b>4</b>	Selected: jcollins 💌
¥		<b>•</b>
OK Cancel		
e user 'icolling' is assigned as an ad	ministrator in Blogs, Click <b>Ok</b>	to save this change

E	interpri	se Applications > I	Blogs > Security role to user/group map	ping			
s	ecurity	role to user/group	mapping				
	Each ro domair commu during and gro the We user:re will cau user in in the o	le that is defined i n user registry. acci- inication in a multi the application sta- oup information th- bSphere default ar- alm/uniqueUserID se authorization to the trusted realms current realm be gi	n the application or module must map to assIds: The accessIds are required only domain scenario. For all other scenarios rt based on the user or group name. The atis used for Java Platform, Enterprise Ec uthorization engine. The format for the a , group:realm/uniqueGroupID. Entering u foil. AllAuthenticatedInTrustedRealms: T be given the access. AllAuthenticated: T wen the access.	a user or group when using cros: the accessId wil accessIds repri- lition authorizat ccessIds is rong informatio "his indicates th his indicates th.	o from the s realm I be determined esent the user ion when using n in these fields at any valid at any valid user		
	Мар	Users Map Gr	oups Map Special Subjects 🔻				
	Ø	6					
	Select	Role	Special subjects	Mapped users	Mapped groups		
		person	All Authenticated in Application's Realm				
		everyone	Everyone				
		metrics-reader	Everyone				
		admin	None	jcollins			
		global- moderator	None				
		search-admin None wasadmin wasadmin widget-admin None wasadmin					
		reader	Everyone				
0	ок	Cancel					

To save the change, click Save as follows:

## 🖯 Messages

- ${}^{igstyle \Delta}$  Changes have been made to your local configuration. You can:
- <u>Save</u> directly to the master configuration.
- <u>Review</u> changes before saving or discarding.

An option to synchronize the configuration across multiple nodes after saving can be enabled in <u>Preferences.</u>

 ${\scriptstyle \textcircled{\sc blue}}$  The server may need to be restarted for these changes to take effect.

Now we have assigned an admin user in blogs. Follow the same procedure to map groups or users to different roles in the various applications, such as admin or moderator where appropriate. It is not required to restart the servers for this change to take effect. However it may take a few minutes for the change to take effect across the node(s) in the deployment.

#### Creating the Blogs Homepage

Log in to Blogs as the newly-assigned administrator.

Lotus Connections	Home	Profiles 🕶	Communities <del>•</del>	Apps -			Jodie Collins	Setting
My Blogs Publi	c Blogs	My Updates	Administration	_	_			
Welcome to	Blogs!							
Follow these steps	to finalize y	our Blogs insta	illation:					
<ul> <li>Create a blo</li> </ul>	g							
Before you o as many as	an start blo you want. E	ogging, you nee Each user can h	d to create at least i nave multiple blogs	one blog. Just so you kn and each blog can have	ow, you can create multiple authors.			
Create your	first blog vi	a the New Blog	Creation Page					
<ul> <li>Designate a</li> </ul>	frontpage	blog						
You must sp Administrat	iecify a blo ion->Config	g to serve as th guration page.	e frontpage of your : In the field labeled "	site. You can do this by g Handle of the blog to se	oing to the rve as the			
frontpage" e	nter a one '	word name for y	your blog to be used	d in the URL for the blog				
Designate a	frontpage	blog on the Adr	ninistration Page					
	Home	Demo Help	IBM Lotus Support For	rums How to Bookmark	Server Metrics About	IBM Lotus Connections on ibm.com	n Submit Feed	back
the top of the page,	there is nov	w an Administrat	tion tab. Click the "N	ew Blog Creation Page"	link to create the new bl	og homepage.		

My Blogs	Public Blogs	My Updates	Administration	
Start	a Blog			
	*Name:	BlogHomepage		
*B	log address:	https://connections	example.com/blog	igs/home 💿
	Tags:	bloghomepage		۱
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	Timozono	(GMT) Greenwich	Mean Time : Dubli	in Edinburgh Lisbon London
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		No., presently transmer         pagential           Anterne since Mark         materne Balansmer Balansme B	ana <sup>14</sup> Mariana Maria	
		the local sector of the s		
		No Serving Service - Service - S	New York Control of the State o	
Save	Cancel			

On the page above, take note of the blog address (in this case 'home'). Also ensure that Theme is set to Blogs Homepage. Click Save to create the blog.

## New blog [BlogHomepage] has been successfully created.

My Blog Start a Blog

# BlogHomepage Jodie Collins New Entry Entries Settings [Set as Primary Blog]

The above message is displayed. Click the Administration tab as shown.

My Blogs	Public Blogs	My U	Jpdates	Administration	
Configuration Administer U Cache Info	) Sers		Col Char Site	Ifiguration ge configuration settings for the entire site. Changes are made as soon as you save; no server restart is require Settings	эd
Tips New Admi	inistrator?			Site name (for Blogs Homepage and feed): Blogs Blog title (shown in site banner): Blogs Site description (for Blogs Homepage and feed):	
<ul> <li>Learn monopoly in the second se</li></ul>	rre about social Ig what content may ropriate" for your	,		Short name from blog address to serve as Blogs Homepage blog: Enable active content filtering:	
<ul> <li>Find exar</li> </ul>	nples Mor	re		Automatic save when editing (minutes): 15	

Enter the blog URL (home), in the above field. Click Save to make this change.

🥝 Change saved.

After the change is successful, log out of Blogs.

<complex-block><complex-block>  Bigs   Image and the second second</complex-block></complex-block>	My Blogs Public Blogs My Upd	ates	Public Blog Entries	Search	٩
<complex-block><complex-block>  Virtual biology   Virtual biology<!--</td--><td>Latest Blog Entries Blogs Listing</td><td>Blogs</td><td></td><td>▼ Featured Blog Entries</td><td>۲</td></complex-block></complex-block>	Latest Blog Entries Blogs Listing	Blogs		▼ Featured Blog Entries	۲
<image/> <text><text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text></text>	My Recommendations          Tags       Image: Tags         No tags yet       Image: Tags	New to Blogs? View blog entries to keep up with topics of interest to you. To participate, comment on entries or start your own blog. Tip: Click ③ to see help on a specific feature or click Help to view all help topics.	X	<ul> <li>Most Recommended</li> <li>Most Commented</li> <li>Most Visited</li> </ul>	
<text><text><text><text><text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text></text></text></text></text>		Start a Blog         New Entry           Sheed for Blog Entries                     Feed for Blog Comments	Display: 📃		
Link & Ald only is string Path Variables for Search         String and Stopping Lotus Connections 3.         To complexity after of stop the system, fallow the process. It is assumed that LDAP is active throughout.         With Application Search         To complexity after of stop the system, fallow the process. It is assumed that LDAP is active throughout.         With Application Search         With App	Now, if you navigate to connections.example	.com/blogs, the above page is displayed.			
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WebSphere Application Server   To statistic press services, use the command prompt or hell in Linux. From the command prompt, issue the following commands:   Sime:   CBMWWebSphere/AppBerer/pofiles/DappShoft tomistar/Node Jast   WebSphere Administario sever is started. To do so, dick Start - All Pograms - IBM HTTP Server V7.0 - Start Admin Server.   Comment	To completely start or stop the system, follow	v this process. It is assumed that LDAP is active throughout.			
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Websrer         Ensure the HS administrator server is started. To do so, dick Start - AI Programs - IBM HTTP Server V7.0 - Start Admin Server.         For the Websphere Administration Console, select Server - Server Types - Web Servers. Select the check box beside webserver1 and click Start or Stop as required.         Image: Server Type is the installed Web servers.         Image: Server Type is the installed Web servers.         Image: Server Type is the image: Server Type is the image: Server Type is the image: Server is the image:	To start/stop these services, use the comman Start: C:\IBM\WebSphere\AppServer\profiles\Dmgr C:\IBM\WebSphere\AppServer\profiles\AppS Stop: C:\IBM\WebSphere\AppServer\profiles\Dmgr C:\IBM\WebSphere\AppServer\profiles\AppS	no prompt or shell in Linux. From the command prompt, issue the following r01\bin\startManager.bat irv01\bin\stopManager.bat r01\bin\stopManager.bat -username wasadmin -password wasadmin Srv01\bin\stopNode.bat -username wasadmin -password wasadmin	commanos:		
Ensure the HMS administration console, select Server - Server Type - Web Servers. Select the check box beside webserver1 and click Start or Stop as required.  For the WebSphere Administration Console, select Server - Server Type - Web Servers. Select the check box beside webserver1 and click Start or Stop as required.  For ensure a service as a list of the installed Web server.  For ensure as the propagate Play in <u>New Delete Template: Start Stop Temmint</u> For ensure a service as administer the following resources:  For ensure as the MHTP Server <u>Veb Server Type - Node - Hoxt Name - Version - Status Persion</u> Delete Template: New Delete Template: New Delete Template: New Persion - Status Persion	WebServer				
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Web serverer         Use this page to view a list of the installed Web servers.         Preferences         Generate Plug-in         Provide a list of the installed Web servers.         Environment         Select, Name          Web server Type          Node          Provide          Web server Type          Node          Node          Web server Type          Node	From the WebSphere Administration Console	e, select Servers - Server Types - Web Servers. Select the check box I	peside webserver1 and click Start or Stop	<b>p</b> as required.	
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WebSphere application server clusters	2
WebSphere application server clusters	
Use this page to change the configuration settings for a application servers. If one of the member servers fails, i cluster. Learn more about this task in a <u>quided activity</u> . <i>i</i> more general information about the topic.	cluster. A server cluster consists of a group of equests will be routed to other members of the A guided activity provides a list of task steps and
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Select Name 🛟	Status ሷ
You can administer the following resources:	
LotusConnections	<b>÷</b>
Total 1	

After the cluster is started, verify that there are no problems by viewing the logs at C:\IBM\WebSphere\profiles\AppSrv01\logs\LotusConnections\_server1\SystemOut.log.

Application ser

Application servers

Select Name 🛟

Preferences

Use this page to view a list of the a status of a specific application serve

New Delete Templates... Sta

You can administer the following re activitiesCluster\_server1

## Tuning and Optimizing Lotus Connections 3.0

This section contains information on how to tune he server heap size. As this guide is intended for a small deployment which may be used for a test deployment no other tuning is included in this section. If you need more information on basic tuning please see the tuning section of the scenario 2 article. There are many more possible tweaks and modifications that can be made on WebSphere Application Server to tune the configuration for optimal performance depending on your requirements. For further information, consult the Lotus Connections 3.0 tuning articles available on the Lotus Connections Wiki.

### Tuning the JVM Heap Sizes

The JVM heap size on a small deployment is set by default to the below values:

Applications	Servers	Initial Heap Size (Mb)	Maximum Heap Size (Mb)
All	LotusConnectionsCluster_server1	512	2560

Follow this guide to tune the heap size as required. When increasing the heap size, it is a good idea to monitor overall memory consumption to ensure that your system can provide the necessary memory allocations without excessive paging.

In this scenario, the machine hosting the Deployment Manager, Application Server, and Web server has 8 GB RAM. When increasing the max heap size, ensure that you do not allocate more memory than the physical capacity of the system.

The following screen shots show how to set the maximum heap size for a server named 'activitiesCluster\_server1'. Apply this process for the LotusConnectionsCluster\_server1 server, which was created in this scenario. Open the Deployment Manager and navigate to Server Types > WebSphere application servers. Click the link for the server you want to modify (LotusConnectionsCluster\_server1).

- Welcome
Guided Activities     Guided Activi
Servers
New server
🖃 Server Types
<ul> <li>WebSphere application servers</li> </ul>
<ul> <li>WebSphere proxy servers</li> </ul>
Generic servers
<ul> <li>Version 5 JMS servers</li> </ul>
<ul> <li>WebSphere MQ servers</li> </ul>
<ul> <li>Web servers</li> </ul>
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Locate the Server Infrastructure section and click Process definition



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