# IBM Connections 4.5: How to Deploy a Two Node Cluster of IBM connections V4.5 on a RedHat (RHEL) Server V6.4 (x86-64bit)

#### About the author

Patrick (Pat) Cadogan has worked for IBM for over a quarter of a century. Pat initially started working at Lotus Development and focused on the globalization and localization of Lotus products such as Lotus 1-2-3, Freelance, Symphony, Improv and Lotus Notes/Domino. . IBM acquired Lotus in 1995. In 1998 Pat moved to the IBM Lotus Lab in Massachusetts, US, where he worked on Lotus Domino for Linux, iSeries and zSeries. After five years in the US Pat returned to the IBM Dublin Lab where he focused on System Verification Testing (SVT) of various IBM products. Pat has worked on the SVT of IBM Connections V2x, 3x, V4 and now V4.5. Pat can be reached at pcadogan@ie.ibm.com.

# References

- <u>IBM Connections System Requirements</u>
- IBM Connections 4.5 Information Center
- Tutorial Installing IBM Connections 4.0 on a Linux RHEL 6.3 64 bit system

#### See related documents:

- IBM Connections 4.5: How to configure SPNEGO
- IBM Connections 4.5: How to configure TAM

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## 1. Deployment Topology

Installing IBM® Connections in a network deployment to achieve optimum scaling, load balancing, and failover.

A network deployment can consist of a single server with all applications installed, or two or more sets of servers that are grouped to share the workload. You must also configure an additional system with WebSphere® Application Server Network Deployment Manager, which enables you to build, manage, and tune the clustered servers.

A network deployment provides the administrator with a central management facility, and it ensures that users have constant access to data. It balances the workload between servers, improves server performance, and facilitates the maintenance of performance when the number of users increases. The added reliability also requires a larger number of systems and the experienced administrative personnel who can manage them.

#### Standard Enterprise Network Deployment Architecture

Figure 1 shows the enterprise-level network deployment of IBM Connections without any additional complexity. This topology shows a two-node cluster of IBM Connections, in which 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 synchronization between both.

IBM Connections is installed on the Deployment Manager machine and from there is pushed out to the nodes in the cell, node01Node and node02Node. The shared data store is a shared space accessible from all nodes in the configuration and the Deployment Manager. In this case the shared space is mounted on the Deployment Manager machine and shared with both nodes, at the same location on those machines.

Sitting in front of the entire configuration is the Web server, from which the end user accesses IBM Connections.



#### Figure 1

In this Scenario and in the above Topology diagram the following apply:

Cognos/Metric is not installed - Cognos install/configuration is covered in a separate document.

IBM Connections Content Manager (Filenet) is not installed - Filenet install/configuration is covered in a separate document.

the WAS Deployment Manager and the IHS server both co-exist on the same physical machine, but they are depicted (in the diagram) as existing on different machines. This was done to help simplify understanding of this deployment - note the hostname is the same for both.

The Domino Mailin server is not integrated with the MS-AD2008 LDAP so that users are not automatically created as needed on the Domino mail server; instead Domino mailin users were created manually (as needed) and the mapping between IC4 and Domino users was based on the users email address. This is not typically how customers would configure Notifications and Domino mail integration.

When installing IBM Connections there are three deployment options to choose from ie small, medium and large. This deployment uses the Medium topology; see <u>Deployment options</u> for more details.

#### Topology: Medium deployment

Install a subset of applications in separate clusters. IBM Connections provides three predefined cluster names shared among all 12 applications. Use this option to distribute applications according to your usage expectations. For instance, you might anticipate higher loads for the Profiles application and install it in its own cluster, while other applications could be installed in a different cluster. This option allows you to maximize the use of available hardware and system resources to

# 2. IBM Connections 4.5 System Requirements

For IBM Connections V4.5 System requirements see the product documentation: <u>http://www-01.ibm.com/support/docview.wss?</u> <u>uid=swg27037782</u>

# Systems specification used in this deployment

Machine Hostname	Applications	Version	OS/version	RAM / CPU / HDD
dm&ihs.spnego.company.com	WAS Deployment Manager	WAS v8.0.0.5 (64bit)	RedHat 6 (64bit)	8GB / 2CPUs /
	IBM HTTP Server (IHS)	IHS v8.0.0.5 (64bit)	Enterprise	80GB
node1.spnego.company.com	Node1 (WAS Application Server)	WAS v8.0.0.5		
node2.spnego.company.com	Node2 (WAS Application Server)	WAS v8.0.0.5		
db2.spnego.company.com	DB2	DB2 v10.1		
	Tivoli Directory Integrator (TDI)	TDI v7.1+FP5		
msad2008.spnego.company.com	MS Active Directory 2008	'2008	Win2008 R2 EE	
			Server	
domino.company.com	Domino Mail-in server	Domino 8.5.3	Win2008 R2 EE	4GB / 2CPUs /
			Server	40GB

All of the above systems are Virtual Machines (VM) running on VMware vSphere V5.0

When installing Connections (in this scenario) we refer to a fictitious user called "AdminFromLDAP" - this user must meet the following criteria:

•is a valid user from the LDAP branch

•is populated to the profiles database (PEOPLEDB) when running the dbPopulation wizard

•is granted Admin access to the DM so that this user can login to the WAS console and can administrate all aspects of Connections •is selected as the Connections administrator when running the Connections Install wizard

#### Note: Where possible we will use the default setting throughout this document especially for paths.

#### Before Installing IBM Connections you must apply the following:

i) Linux RedHat 6 (64bit) OS essential patches: see the IBM Connections InfoCenter for details: http://www-10.lotus.com/ldd/lcwiki.nsf/xpDocViewer.xsp? lookupName=IBM+Connections+4.5+documentation#action=openDocument&res\_title=Linux\_libraries\_ic45&content=pdcontent

#### ii) Install the following additional Redhat libraries

./ibm-yum.sh install <package> - where packages are:

ksh\* compat-db\* compat-libstdc++-33\* compat-glibc-2\* openmotif22-2\* libXtst\* libXp\* libXmu\* libXtst\* pam\* rpm-build\* elfutils\* libXft\* gtk2\*

### iii) WebSphere requirements

- a) WAS 8.0.0.5 is the minimum requirement
- b) Additional required WebSphere iFixes (for the Deployment Manager) are: <u>PM62615</u> - Here is Fix Central iFix for PM62615 <u>PM71430</u> - Here is Fix Central iFix for PM71430

iv) Synchronise the time on all systems in the deployment by running: ntpdate clock.redhat.com on each system

#### v) Configure the Open File Descriptor limit to at least 8192 on all systems (DM, Node1, Node2 and DB2)

vi /etc/profile add ulimit -n 8192

verify by running: **ulimit -a** 

On none windows platforms ensure that the Open File Descriptor limit is set to at least 8192 ulimit -n 8192

#### vi) Setup a NSF4 Shared Area for the DM, Node1 and Node2

In a Networked Deployment (multi node clustered environment with several systems) there is the need to set up a shared area which all nodes and the DM can access.

All nodes in the cluster need to have read and write access to this area.

This is used to store indexes which Connections needs.

This area needs to be setup prior to the Connections install as the installation will ask for this location during the setup process.

NOTE: Its highly recommended to use a 'fast reliable networked file system' for both this shared file area and the server were you locate your databases.

When using NFS, use NFS v4 because NFS v3 lacks advanced locking capability.

In this scenario we will set up the NFS share on our Deployment Manager; then share it out to each Nodes system so that each node system can read/write to the share. These are the steps to do this:

#### On the DM system (dm&his.spengo.company.com), create a Share folder (using NFS4 Server)

Create a folder on the system you want to share the folder on eg on the DM system create a folder **/opt/IC\_Share eg: mkdir /opt/IC\_Share** 

Give full read/write access to this folder, chmod -R 777 /opt/IC\_Share

With NFS v4 you can export just one file system, so all the folders you need to mount on the clients should be under this one.

#### Edit the /etc/exports file [ie #vi /etc/exports] and add the following lines /opt/IC\_Share node1.company.com(rw)

/opt/IC\_Share node2.company.com(rw)
Write and Quit [:wq!]

verify nsf service is running - if it is not then enable it via services service nfs restart | stop | start mount -all

You have now shared this folder to systems node1 and node2

**Config Node1 and Node2 to access the Shared Folder on the DM system as follows:** Enable the **nfs** service on node1 and node2

create the folder to mount to eg: mkdir /opt/IC\_Share

Add the following line to vi /etc/fstab dm&ihs.spnego.company.com:/opt/IC\_Share /opt/IC\_Share nfs

Mount the remote file system: mount -all

## 3. Middleware installation and configuration

## 3.1 IBM Installation Manager 1.5.3:

WebSphere V8.0 is installed using the **IBM Installation Manager** (IM) so we must install this first. You can download IM 1.5.3 from <u>http://www-01.ibm.com/support/docview.wss?uid=swg24032358</u>.

Unzip locally on your machine and run **install** to begin the IM installation...this will display the following screen.

n installation manager			
nstall Packages			-
Select packages to install:			7
Installation Packages	Status	Vendor	License Key Type
🛛 🗊 IBM® Installation Manager			
🛛 🕅 Version 1.5.3	Will be installed	IBM	No key required
] Show <u>a</u> ll versions	2	heck for Other Ver	rsions, Fixes, and Extension
☐ Show <u>a</u> ll versions <b>betails</b>	٦	heck for Other Vei	rsions, Fixes, and Extension
] Show <u>a</u> ll versions <b>Vetails</b> BM® Installation Manager 1.5.3	2	heck for Other Ver	rsions, Fixes, and Extension
☐ Show <u>a</u> ll versions <b>Vetails</b> BM® Installation Manager 1.5.3 BM® Installation Manager <u>More info</u>	<u></u>	heck for Other Vei	rsions, Fixes, and Extension
☐ Show <u>a</u> ll versions <b>&gt;etails</b> BM® Installation Manager 1.5.3 BM® Installation Manager <u>More info</u> Repository: /opt/software/IM153	2	neck for Other Vei	rsions, Fixes, and Extension
Show <u>a</u> ll versions <b>betails</b> BM® Installation Manager 1.5.3 BM® Installation Manager <u>More info</u> Repository: /opt/software/IM153	<u>2</u>	heck for Other Vei	rsions, Fixes, and Extension
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Show <u>a</u> ll versions <b>&gt;etails</b> 3M⊗ Installation Manager 1.5.3 3M⊗ Installation Manager <u>More info</u> Repository: /opt/software/IM153	2	neck for Other Vei	rsions, Fixes, and Extension

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select Next to continue ...

🐒 IBM Installation Manager	_ O X
Install Packages Select a location for Installation Manager.	4
Once installed, IBM Installation Manager will be used to install, update, modify, manage and uninstall your packa	ges.
Installation Manager Directory: //opt/IBM/InstallationManager/eclipse	Browse
Disk Space Information	
Volume Available Space	
/ 26.80 GB	
() (install	Cancel

At this summary screen select **Install** to begin the installation...

After some time the installation will complete and you will see:

Install Packages		-
		1
	The packages are installed. <u>View Log File</u>	
	The following package was installed:	
	マ 🗞 IBM Installation Manager	
	IBM® Installation Manager 1.5.3	
	L Click on "Restart Installation Manager" to launch the new Installation Manager and to start installation of other package(s).	
0		Restart Installation Manag

That's the IM installed.

Note: You will need to do this on your Deployment Manager, Application Server(s), HTTP Server and Plugin's servers in your deployment.

# Tip: How to start the Installation Manager to install WAS; the IHS webserver and updates:

Goto the folder: /opt/IBM/InstallationManager/eclipse Select 'launcher' or from the cmd line enter "./launcher"

## 3.2 WebSphere V8.0 Deployment Manager Installation

Create the following folder: /opt/software - we will use this folder to store all download images required to install WAS DM

Download the WAS Network Deployment V8 install images/zip-files into a folder called **/opt/software/WAS80DM** on you designated DM machine. The four images/zip files to download:

-	CZM9KML.zip					
	CZM9LML.zip					
	CZM9MML.zip					
	CZVG4ML.zip					
Unzi	p all four zip files and yo	ou will see tl	he following	, files in	the WAS80DM folder:	
	[root@dubxpcvm766 WAS80DM]	# ls	· ·			
	Copyright.txt diskl disk	2 disk3 dis	k4 lafiles	readme	Remote Installation Tool for IBM i	repository.config
	[root@dubxpcvm766 WAS80DM]	#				

Startup the Installation Manager, which you installed earlier, on your deployment manager system.

# Select File then Preferences.

Select the Add Repository... button and enter the details to the path for the DM repository.config file. Select OK to continue...

🔹 Add Repository	
Add a repository Specify a repository and add to the repository preference list.	
Repository:	
/opt/software/WAS80DM/repository.config	▼ Browse
ОК	Cancel

# Now select Install

è	IBM Installation Manager			_ D >
	Install Packages			4
	Select packages to install:			
	Installation Packages	Status	Vendor	License Key Type
	🗢 🖬 🧃 IBM WebSphere Application Server Network D	eployment		
	☑ 😱 Version 8.0.0.0	Will be installed	ІВМ	
	☐ Show <u>a</u> ll versions		heck for Other Ver	rsions, Fixes, and Extensions
	Details			<u>_</u>
	IBM WebSphere Application Server Network Dep IBM WebSphere Application Server Network Deployme compliant application server for the deployment of en in application serving beyond the WebSphere Applicat clustering capabilities. <u>More info</u> • Repository: /opt/software/WAS80DM	ployment 8.0.0.0 ent is a production-ready Java Pla terprise web services solutions ion Server base edition because	tform, Enterprise for dynamic e-bus it provides advand	Edition (Java EE) iness. It is the next level ced web services and
	0	< <u>B</u> ack	<u>N</u> ext >	Install

#### Accept the license agreement and next to continue...

IBM Installation Manager	×
Install Dackages	
Read the following license agreements carefully.	
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"Program" - the following, including the original and all whole or partial copies: 1) machine-readable instructions and data, 2) components, files, and modules, 3) audio-visual content (such as images, text, recordings, or pictures), and 4) related licensed	
◎ [I accept the terms in the license agreement]	
○ I <u>d</u> o not accept the terms in the license agreement	
()     < <u>Back</u> <u>Install</u> Cancel	)
select Next to continue	
BIBM Installation Manager	
Select a location for the shared resources directory.	
Install Licenses Location Features Summary	
When you install packages, files are stored in two locations:	
1) The shared resources directory - resources that can be shared by multiple packages.	

Enter the path to were to install the deployment manager. Select **Next** to continue...

Browse...

2) The installation directory - any resources that are unique to the package that you are installing.

shared resources of future packages.

Shared Resources Directory: /opt/IBM/IMShared

**Disk Space Information** Volume Available Space 26.17 GB

1

Important: You can 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 the most available space because it must have adequate space for the

1	IBM Installation Manager			_ 🗆 X		
	Install Packages A package group is a location that contains one or m package group and will share a common user interfa	nore packages. Some compatible packa ace. Select an existing package group, o	iges can be installed into a common r create a new one.			
R.	Install       Licenses       Location       Features       Summary         O       Use the existing package group         Image: Create a new package group					
	Package Group Name	Installation Directory	Architecture			
	় IBM WebSphere Application Server Network Deplo় /opt/IBM/WebSphere/DeploymentManager					
	Package Group Name: IBM WebSphere Application	Server Network Deployment V8.0				
	Installation <u>D</u> irectory: //opt/IBM/WebSphere/Deplo	pymentManager	Brow	se		

# Select Next to continue...

1	IBM Installation Mar	nager					
	Install Packages Select the translations to install.						
	Install Licenses Location Features Summary						
	Translation						
	☑ <u>E</u> nglish	Brazilian Portuguese	□ C <u>z</u> ech	Erench	🗌 <u>G</u> erman		
	🗌 <u>H</u> ungarian	🗌 I <u>t</u> alian	🗌 Japanese	□ <u>K</u> orean	🗌 Po <u>l</u> ish		
	🗆 Romanian	□ Ru <u>s</u> sian	□ Si <u>m</u> plified Chinese	□ S <u>p</u> anish	🗌 Traditional		

The installation packages are then displayed to you. I did not change any of the defaults here. Select **Next** to continue...

IBM Installation Manager	- 🗆 X
Install Daskagos	_
Select the features to install	
Install Licenses Location Features Summary	_ []
Features	
🗢 🛢 🕼 IBM WebSphere Application Server Network Deployment 8.0.0.0	
EJBDeploy tool for pre-EJB 3.0 modules	
Stand-alone thin clients and resource adapters	
☑ Embeddable EJB container	
Sample applications	
🗢 🖻 🕼 IBM Software Development Kit	
IBM 32-bit SDK for Java, Version 6	=
IBM 64-bit SDK for Java, Version 6	
□ Show dependencies Expand All Collapse All Restore Defau	t
🍲 - Selected by Installation Manager because of dependencies	
Details	
IBM WebSphere Application Server Network Deployment 8.0.0.0	
IBM WebSphere Application Server Network Deployment is a production-ready Java Platform, Enterprise Edition (Java EE) compliant application server for the deployment of enterprise web services solutions for dynamic e-business. It is the next level in application serving beyond the WebSphere Application Server base edition because it provides advanced web services	
Disk Space Information	
Valumo Doquirod Tomporany Tatal Availabla	•
Image: Second	cel

Finally a summary screen will be displayed. Select Install.

minscallation manager		
nstall Packages		~
Review the summary inform	ation.	7
Instail Licenses	Location Features Summary	
arget		
Package Group Name:	IBM WebSphere Application Server Network Deployment V8.0	
nstallation Directory:	/opt/IBM/WebSphere/DeploymentManager	
Shared Resources Directory	: /opt/IBM/IMShared	
ackages		
Packages		
🗢 🧊 IBM WebSphere Applic	ation Server Network Deployment 8.0.0.0	-
🚯 EJBDeploy tool for p	ore-EJB 3.0 modules	
🗢 🚯 Stand-alone thin cli	ents, resource adapters and embeddable containers	
🚯 Stand-alone thin	clients and resource adapters	
🚯 Embeddable EJB	container	
⊽ 🐞 IBM Software Devel	opment Kit	
🚯 IBM 64-bit SDK fo	r Java, Version 6	
nvironment	Disk Space Information	
nglish	Total Available	Space
	/ 26.	17 GE
	Total Download Size: 036.08 MB	
	Total Installation Size: 1.99 GB	
Repository Information		
	< Back Next> Install C	ancel

After some time the installation will complete. During the installation you will see stuff like this...

Repository Information		
Installing.: Retrieving files at 281.2 MB/s. 248 MB of 936 MB (27%) completed.	Dause Download	Cancel
	Pause Download	

Once complete you are asked to create a Deployment Manager Profile... Select **Profile Management Tool to create a profile** and then **Finish**.

M Installation Manager	
nstall Packages	
<b>V</b> The packages are	installed. <u>View Log File</u>
The following package was installed:	Which program do you want to start?
ా 🔩 IBM WebSphere Application Server Network Deployme	<u> <u> </u> </u>
👔 IBM WebSphere Application Server Network Deployi	O Profile Management Tool to create an application server
	○ <u>N</u> one
Note: If the packages support rollback, the temporary director	y contains rollback files for installed packages. You can
delete the files on the <u>Files for rollback</u> preference page.	
	<u> </u>

# The **WebSphere Customization Toolbox** starts. Select the **Create...** button

•

•	WebSphere C	Customization Tool	box 8.0				×
E	ile <u>W</u> indow <u>H</u>	lelp					
	🗈 🚺 Profile M	lanagement Tool ઉ	Welcome				
Q	) Profiles						۵
	Profile name	Environment		Profile path	<u>C</u> reate		
					Augme	nt.,	

# Change the WebSphere Application Server selection to Management and then Next

Profile Management Tool 8.0		X
Environment Selection		3
Select a specific type of environment to create. <u>E</u> nvironments:		^
<ul> <li>WebSphere Application Server</li> <li>Cell (deployment manager and a federated application server)</li> </ul>		
Management		
Application server		
Custom profile		
Secure proxy (configuration-only)		
		Ξ
Description		
A management profile provides the server and services for managing multiple application server environments. The administrative agent manages application servers on the same machine. The Networ Deployment edition also includes a deployment manager for tightly coupled management and a job manager for loosely coupled management of topologies distributed over multiple machines.	k ≡ ▼	•
< <u>B</u> ack <u>N</u> ext > <u>Finish</u> Ca	ancel	

Select the **Deployment manager** option and then **Next** to continue...

\varTheta Profile Management Tool 8.0		_ 🗆 X
Server Type Selection		i a
Select the type of server to be created within this man	nagement profile	<u> </u>
O <u>A</u> dministrative agent		
An administrative agent provides management co administrative agent can manage only the applic one machine.	apability for multiple stand-alone application servers. ation servers that exist within the same installation o	. An n
Deployment manager		=
A deployment manager provides management ca manager can manage nodes that span multiple s deployment manager can only be managed by a cell of that deployment manager.	apability for multiple federated nodes. A deployment ystems and platforms. The nodes that are managed b single deployment manager and must be federated to	y a o the
⊖ Job manager		
A job manager provides management capability f administrative agents, and deployment manager systems and platforms. The nodes that are mana job managers.	for multiple stand-alone application servers, s. The job manager can manage nodes that span mult aged by one job manager also can be managed by oth	tiple ler
[	< <u>B</u> ack Next > Finish Ca	ancel

# Select the Typical profile creation option and then Next to continue...

- · · · · · · · · · · · · · · · · · · ·	
Profile Creation Options	E g
Choose the profile creation process that meets your needs. Pick the Typical option to allow the Profile Management Tool to assign a set of default configuration values to the profile. Pick the Advanced option to specify your own configuration values for the profile.	<u>^</u>
<ul> <li>Typical profile creation</li> </ul>	
Create a deployment manager profile that uses default configuration settings. The Profile Manageme Tool assigns unique names to the profile, node, host, and cell. The tool also assigns unique port value The administrative console will be installed and you can optionally select whether to enable adminis security. The tool might create a system service to run the deployment manager depending on the operating system of your machine and the privileges assigned to your user account. <b>Note</b> : Default personal certificates expire in one year. Select Advanced profile creation to create a personal certificate with a different expiration.	nt ≥S. ≡ trative
O Advanced profile creation	-
Create a deployment manager using default configuration settings or specify your own values for set such as the location of the profile and names of the profile, node, host, and cell. You can assign your port values. You can optionally choose whether to deploy the administrative console. You might have option to run the deployment manager as a system service depending on the operating system of yr machine and the privileges assigned to your user account.	tings own the bur
Sinish Binish	Cancel

Ensure **Enable administrative security** is checked and enter an admin user name & password.

💠 Profile Management Tool 8.0		_ 🗆 🗙
Administrative Security		
: Choose whether to enable administrative security. into administrative tools. This administrative user i profile creation finishes, you can add more users, g	To enable security, supply a user nar is created in a repository within the a groups, or external repositories.	ne and password for logging pplication server. After
Enable administrative security		
<u>U</u> ser name:		
wasadmin		
Password:		
•••••		
Con <u>f</u> irm password:		
•••••		
See the information center for more information a View the online information center	bout administrative security.	

At this summary screen select **Create** (to create the profile)...this will take a few minutes...

🕀 Profile Management Tool 8.0	_ 🗆 🗙
Profile Creation Summary	i a
Review the information in the summary for correctness. If the information is correct, click <b>Create</b> to start c a new profile. Click <b>Back</b> to change values on the previous panels.	reating
Application server environment to create: Management	Ê
Server type: <u>D</u> eployment manager	
Location: /opt/IBM/WebSphere/DeploymentManager/profiles/Dmgr01	
Disk space required: 30 MB	
Profile name: Dmgr01	
Make this profile the default: True	=
Cell name: dubxpcvm766Cell01	
Node name: dubxpcvm766CellManager01	
Host name: dubxpcvm766.mul.ie.ibm.com	
Deploy the administrative console (recommended): True	
Enable administrative security (recommended): True	
Administrative console port: 9060	
Administrative console secure port: 9043	
Donlayment manager heatstran nert: 0000	•
<a>Back</a> Create Einish Car	ncel

Check the option Launch the First steps console and then select Finish.

\varTheta Profile Management Tool 8.0		_ 🗆 🗙
Profile Creation Complete		i a
The Profile Management Tool created the pro	ofile successfully.	
The next step in creating a Network Deployment en can be federated into its cell. After the deployment i the cell.	wironment is to start the deployment manager so t manager is started, you can administer the nodes t	hat nodes hat belong to
You can start and stop the deployment manager fron console also has links to an installation verification deployment manager.	m the command line or the First steps console. Th test and other information and features that relate	e First steps to the
Launch the First steps console.		
To start the Profile Management Tool later, use the <b>P</b> directory or the option in the First steps console.	PMT command in the <i>app_server_root</i> /bin/ProfileM	anagement
	< <u>Back</u> <u>Next&gt;</u> <u>Finish</u>	Cancel

# Select the Installation verification option

🔶 WebSphere Application Server - First steps - Dmgr01	_ ×
WebSphere Application Server	IBM.
First steps	
Installation verification Confirm that your server is installed and that it can start properly.	
Start the deployment manager Start the deployment manager and its applications.	
Administrative console Install and administer applications.	
WebSphere Customization Toolbox Launch this toolbox to access the Profile Management Tool and work with profiles, or to access the Migration Management Tool and migrate WebSphere Application Server 6.0, 6.1 or 7.0 profiles to version 8.0.	
Information center for WebSphere Application Server Learn more about WebSphere Application Server and explore sample applications.	
IBM Education Assistant for WebSphere software Access multimedia content for WebSphere Application Server version 8.0 and other IBM software products.	
Exit	

Once complete you should see the following messages...

[10/4/12 15:26:27:018 IST] 0000000a wtp [10/4/12 15:26:27:019 IST] 0000000a wtp [10/4/12 15:26:27:021 IST] 0000000a wtp [10/4/12 15:26:27:022 IST] 0000000a wtp [10/4/12 15:26:27:025 IST] 0000000a wtp [10/4/12 15:26:28:977 IST] 0000000a wtp [10/4/12 15:26:28:979 IST] 000000000a wtp [10/4/12 15:26:28:979 IST] 00000000a wtp [10/4/12 15:26:28:979 IST] 0000000a wtp [10/4/12 15:26:28:979 IST] 00000000a wtp [10/4/12 15:26:28:979 IST] 00000000a wtp [10/4/12 15:26:28:979 IST] 00000000a wtp [10/4/12 15:26:28:979 IST] 000000000000000000000000000000000000	W org.eclipse. jst. j2ee.commonarchivecore.internal.strategy.LoadStrategyImpl createFile FileNotFo W org.eclipse. jst. j2ee.commonarchivecore.internal.strategy.LoadStrategyImpl createFile FileNotFo W org.eclipse.jst.j2ee.commonarchivecore.internal.strategy.LoadStrategyImpl createFile FileNotFo ImplementIm	
		•
<u> </u>		

Using your Browser check that you login to Websphere Integrated Solutions Console (also known as the WAS Admin Console) via the URL address: "https://dm&ihs.spnego.company.com:9043/ibm/console/logon.jsp" using the administrator user & password define previously; in this case that admin user is "**wasadmin**".

WebSphere. software		Welcome was	admin Help   Logout III.
View: All tasks 🗸	Welcome		
Welcome	Welcome	? = 🗆	About this Integrated Solutions Console
Guided Activities     Guided Activities     Section     S			
	Integrated Solutions Console provides a com	mon administrative console for	Integrated Solutions Console, 8.0.0.0 A Build Number: n1118.03
	multiple products. The table lists the product through this installation. Select a product suit	suites that can be administered te to view more information.	Build Date: 5/3/11
± Jobs			LICENSED MATERIALS PROPERTY OF
	Suite Name	Version	IBM 5724-H88, 5724-J08, 5724-J63,
	WebSphere Application Server	8.0.0.0	5655-W65 (C) Copyright *
			International Business Machines
Environment			
Users and Groups			
Honitoring and Tuning			
Troubleshooting			
Service integration			
± UDDI			
L	I		

Your Deployment Manager is now setup.

## 3.3 Install WAS V8 Applications Server on Node1 and Node2

In this scenario we have a 2 node cluster deployment so we will repeat these steps on both Node1 and Node2 systems.

Download and unzip the following four WAS V8 images/zip files into the folder /opt/software/WAS80App

After unzipping these files you should see the following files/folder in the WAS80App folder:

[root@dubxpcvm	1766 WAS	80App]#	ls									
Copyright.txt	disk1	disk2	disk3	disk4	lafiles	readme	Remote	Installation	Tool	for_IBM	1_i ∣	repository.config
[root@dubxpcvm	1766 WAS	80App]#										

Start Installation Manager which you installed earlier.

Select File and Preferences to add the installation repository for the AppServer install.

Preferences		
	Repositories	() ≠ () ≠ 🔻
Repositories Appearance	Repositories:	
Files for Bollback	Location Conn	ection Add <u>R</u> epository
> Help	☑ /opt/software/WAS80DM/repository.config 🏭	Criit Repository
Internet		
Passport Advantage		Remo <u>v</u> e Repository
Updates		Move <u>Up</u>
		Move Down
		<u>C</u> lear Credentials
		Test Connections
	Service repositories are remote locations where updates or externation Manager itself) are stored.	ensions to packages (including the
	Search service repositories during installation and updates.	
		Restore <u>D</u> efaults <u>A</u> pply
0		OK Cancel

Select the Add Repository... button and enter the details to the path for the repository.config file. Select OK to continue...

1 Add Repository	
Add a repository Specify a repository and add to the repository preference list.	
Repository:	
/opt/software/WAS80App/repository.config	▼ Browse
ОК	Cancel

Now select **Install** from the main window on the installation manager.

Select packages to install:			
Installation Packages	Status	Vendor	License Key Type
🔻 🗹 🧃 IBM WebSphere Application Server			
🗹 🕅 Version 8.0.0.0	Will be installed	IBM	
🗢 🗆 🗊 IBM WebSphere Application Server Network Deployment	Installed		
🗆 🕼 Version 8.0.0.0	Installed	IBM	
		hack for Other Ver	tions floos and Eutopsian
□ Show <u>a</u> ll versions	C	heck for Other Vers	sions, Fixes, and Extension:
□ Show <u>a</u> ll versions Details	C	heck for Other Vers	sions, Fixes, and Extension:
Show <u>a</u> ll versions Details IBM WebSphere Application Server 8.0.0.0	C	heck for Other Vers	sions, Fixes, and Extension:
Show <u>all versions Details IBM WebSphere Application Server 8.0.0.0 The IBM WebSphere Application Server family is the leading open</u>	C	heck for Other Vers	sions, Fixes, and Extensions
Show <u>all versions Details IBM WebSphere Application Server 8.0.0.0 The IBM WebSphere Application Server family is the leading open compliant application foundation offering broad programming mod</u>	Standards-based Java lel choice and lower 1	heck for Other Vers a Platform, Enterpri otal cost of owners	sions, Fixes, and Extension: ise Edition (Java EE) ship through high
Show <u>all versions</u> Details  IBM WebSphere Application Server 8.0.0.0  The IBM WebSphere Application Server family is the leading open compliant application foundation offering broad programming mod performance and high manageability.	C standards-based Java lel choice and lower l	heck for Other Vers a Platform, Enterpri otal cost of owners	sions, Fixes, and Extensions ise Edition (Java EE) ship through high
Show <u>a</u> ll versions Details IBM WebSphere Application Server 8.0.0.0 The IBM WebSphere Application Server family is the leading open compliant application foundation offering broad programming mod performance and high manageability. WebSphere Application Server delivers the availability and security.	standards-based Java lel choice and lower f y your business depe	heck for Other Vers a Platform, Enterpri total cost of owners nds on while optim	sions, Fixes, and Extensions ise Edition (Java EE) ship through high hizing cost. <u>More info</u>
Show <u>a</u> ll versions Details IBM WebSphere Application Server 8.0.0.0 The IBM WebSphere Application Server family is the leading open compliant application foundation offering broad programming mod performance and high manageability. WebSphere Application Server delivers the availability and security • Repository: /opt/software/WAS80App	standards-based Java lel choice and lower l y your business depe	heck for Other Vers a Platform, Enterpri otal cost of owners nds on while optim	sions, Fixes, and Extensions ise Edition (Java EE) ship through high hizing cost. <u>More info</u>
Show <u>a</u> ll versions  Details  IBM WebSphere Application Server 8.0.0.0  The IBM WebSphere Application Server family is the leading open compliant application foundation offering broad programming mod performance and high manageability. WebSphere Application Server delivers the availability and security Repository: /opt/software/WAS80App	Standards-based Java lel choice and lower l y your business depe	heck for Other Vers a Platform, Enterpri otal cost of owners nds on while optim	sions, Fixes, and Extension: ise Edition (Java EE) ship through high nizing cost. <u>More info</u>

Accept the license agreement and **Next** to continue...

🖺 IBM Installation Manager 📃 🗆 🗙
Install Dackages
Read the following license agreements carefully.
Install Licenses Location Features Summary
International Program License Agreement
Part 1 - General Terms
BY DOWNLOADING, INSTALLING, COPYING, ACCESSING, CLICKING ON AN "ACCEPT" BUTTON, OR OTHERWISE USING THE PROGRAM, LICENSEE AGREES TO THE TERMS OF THIS AGREEMENT. IF YOU ARE ACCEPTING THESE TERMS ON BEHALF OF LICENSEE, YOU REPRESENT AND WARRANT THAT YOU HAVE FULL AUTHORITY TO BIND LICENSEE TO THESE TERMS. IF YOU DO NOT AGREE TO THESE TERMS,
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I accept the terms in the license agreement
○ I <u>d</u> o not accept the terms in the license agreement
Install     Cancel

Enter the Installation directory. Select Next to continue...

IBM Installation Manager	
Install Packages A package group is a location that contains one or more package group and will share a common user interface.	e packages. Some compatible packages can be installed into a common . Select an existing package group, or create a new one.
Install     Licenses     Location     Feature       Use the existing package group     Image: Compare the second sec	s Summary
Package Group Name	Installation Directory Architecture
IBM WebSphere Application Server V8.0	/opt/IBM/WebSphere/AppServer
Package Group Name: IBM WebSphere Application Se Installation <u>D</u> irectory: //opt/IBM/WebSphere/AppServe	rver V8.0 rer Browse Disk Space Information
Shared Resources Directory: /opt/IBM/IMShared	Volume Available Space
	/ 23.53 GB
0	< <u>B</u> ack Next > Install Cancel

# Select Next to continue...

Install Packages Select the translations Install Licens	s to install.	atures Summary			
Select the translation:	s to install. ies Location Fe	atures Summary			7
Install Licens	es Location Fe	atures Summary			
Translation					
Translation					
nunsiation					
☑ <u>E</u> nglish	Brazilian Portuguese	□ C <u>z</u> ech	□ <u>F</u> rench	🗌 <u>G</u> erman	
🗌 <u>H</u> ungarian	🗌 I <u>t</u> alian	🗌 Japanese	🗌 <u>K</u> orean	🗌 Po <u>l</u> ish	
🗌 Romanian	🗌 Ru <u>s</u> sian	Simplified Chinese	🗌 S <u>p</u> anish	Traditional <u>Chinese</u>	
		<	Back Next >	[Install]	Cancel

The Install Packages screen is displayed. I did not change any of the defaults here. Select Next to continue...

SM Installation Mana	er									
Select the features to	install								4	
Install Scien	ses ) Locatio	n Fe	atures > Su	mmary						_ [
Features										
🔻 🗏 🧃 IBM WebSph	ere Application Se	erver 8.0.0.0								
EJBDeploy	tool for pre-EJB 3	3.0 modules								
🗢 🗹 🐞 Stand-alor	e thin clients, res	source adapt	ers and embed	dable con	ainers					
🗹 Stand-a	one thin clients a	and resource	adapters							
🗹 Embedo	able EJB containe	er								
Sample ap	plications									
🗢 🗏 🔞 IBM Softw	re Development	Kit								
IBM 32-	oit SDK for Java, V	ersion 6								
IBM 64-	oit SDK for Java, V	ersion 6								
Show dependenci Selected by Insta	es lation Manager be	ecause of de	pendencies			Expand A	ll <u>C</u> ollaps	e All <u>R</u> est	ore Default	]
Details										
The IBM WebSphere A	Application Serve	er 8.0.0.0	o loading onor	standard	hac od lav	a Blatform	Entornrico	Edition (law	- EE)	a
compliant application performance and hig	foundation offeri manageability.	ing broad pro	ogramming mo	del choice	and lower	total cost o	fownershi	p through hi	gh -	
Disk Space Inform	ation									
	Volume	Required	Temnoran/	Total	Δvaila	hle				
				ſ	< Back	Nex	d >		Canc	el

The summary screen appears.... Select Install to start the installation process...

			8
nstall Packages			~
Review the summary inform	lation.		7
Install Licenses	Location Features	Summary	
arget			
Package Group Name:	IBM WebSphere Application	n Server V8.0	
Installation Directory:	/opt/IBM/WebSphere/AppS	erver	
Shared Resources Directory	/: /opt/IBM/IMShared		
ackages			
Packages			
▽ 🗊 IBM WebSphere Appli	cation Server 8.0.0.0		
🚯 EJBDeploy tool for	pre-EJB 3.0 modules		
🗢 🔥 Stand-alone thin cli	ents, resource adapters and e	embeddable containers	
🚯 Stand-alone thin	clients and resource adapters	5	
🚯 Embeddable EJB	container		
🗢 🔖 IBM Software Deve	lopment Kit		
🚯 IBM 64-bit SDK fo	or Java, Version 6		
invironment		Disk Space Information	
nglish		·	Total Available Space
		1	23.53 GE
		Total Download Size, 921.0	VD
		Total Installation Size: 1.05 G	зВ
Repository Information	1		
		< Back New	xt> Install Cancel

After a few minutes the install will complete and you will see the following screen. Select the option **Profile Management Tool to create a profile** and then **Finish**.

tall Packages	
4	
🗸 The package	s are installed. <u>View Log File</u>
The following package was installed:	Which program do you want to start?
▽ ೄ IBM WebSphere Application Server V8.0	<u> <u> P</u>rofile Management Tool to create a profile. </u>
IBM WebSphere Application Server 8.0.0.0	O Profile Management Tool to create an application server
	○ <u>N</u> one
Note: If the packages support rollback, the temporary dire	ectory contains rollback files for installed packages. You can
delete the files on the <u>Files for rollback</u> preference page.	

# This will startup the **WebSphere Customization Toolbox**. Select the **Create...** button

\varTheta WebSphere	Customization Toolbox 8.0		_ <b>_</b> ×
<u>File W</u> indow <u>H</u>	<u>H</u> elp		
🖹 🚺 Profile N	lanagement Tool 🚯 Welcome		
🕐 Proviles			- 8
Profile name	Environment	Profile path	<u>C</u> reate
			Augment

#### Select Application server and then Next to continue...

Profile Management Tool 8.0	_ 🗆 🗙
Environment Selection	
Select a specific type of environment to create. <u>E</u> nvironments:	<u></u>
<ul> <li>✓ WebSphere Application Server</li> <li>Management</li> </ul>	
Application server	
	=
Description An application server environment runs your enterprise applications. WebSphere Application Server is managed from its own administrative console and functions independently from all other application serv	/ers.
< <u>Back</u> <u>Next</u> <u>Einish</u> Ca	ancel

Select Typical profile creation and then Next to continue...

₱ Profile Management Tool 8.0	
Profile Creation Options	
Choose the profile creation process that meets your needs. Pick the Typical option to allow the Profile Management Tool to assign a set of default configuration values to the profile. Pick the Advanced option to specify your own configuration values for the profile.	
⊙ <u>T</u> ypical profile creation	
Create an application server profile that uses default configuration settings. The Profile Management assigns unique names to the profile, node, and host. The tool also assigns unique port values. The administrative console and the default application will be installed. You can optionally select whether t enable administrative security. The tool might create a system service to run the application server depending on the operating system of your machine and the privileges assigned to your user account	ōol o
<b>Note</b> : Default personal certificates expire in one year. Select Advanced profile creation to create a personal certificate with a different expiration.	
○ <u>A</u> dvanced profile creation	
Create application server using default configuration settings or specify your own values for settings s as the location of the profile and names of the profile, node, and host. You can assign your own port values. You can optionally choose whether to deploy the administrative console and Sample applicatic and create a Web server definition. You might have the option to run the application server as a syste service depending on the operating system of your machine and the privileges assigned to your user account.	uch ns, n
	Ŧ
< <u>B</u> ack <u>N</u> ext > Einish Ca	ncel

Ensure the **Enable administrative security** box is checked and enter a User name and Password for the WAS Admin.

I use the same User name and password that I used when setting up the Deployment Manager ie "**wasadmin**" Select **Next** to continue

🗣 Profile Management Tool 8.0		_ <b>—</b> ×
Administrative Security		ja katalan kata
Choose whether to enable administrative security. into administrative tools. This administrative user is profile creation finishes, you can add more users, g	To enable security, supply a user s created in a repository within th roups, or external repositories.	name and password for logging ne application server. After
Enable administrative security		
<u>U</u> ser name:		
wasadmin		
Password:		
•••••		
Con <u>f</u> irm password:		
•••••		
See the information center for more information al View the online information center	bout administrative security.	

The summary screen is displayed. Select **Create** to create the profile...

Profile Management Tool 8.0	_ 🗆 🗙
Profile Creation Summary 축	ill of
Review the information in the summary for correctness. If the information is correct, click <b>Create</b> to start a new profile. Click <b>Back</b> to change values on the previous panels.	t creating
Application server environment to create: Application server	
Location: /opt/IBM/WebSphere/AppServer/profiles/AppSrv01	
Disk space required: 200 MB	
Profile name: AppSrv01	
Make this profile the default: True	
Performance tuning setting: Standard	=
Node name: dubxpcym766Node01	
Server name: server1	
Host name: dubxpcvm766.mul.ie.ibm.com	
Deploy the administrative console (recommended): True	
Deploy the default application: True	
Enable administrative security (recommended): True	
Administrative console port: 9061	
Administrativo consolo socuro nort: 9044	▼
<b>Seck</b> Create Einish C	ancel

This may take a few minutes to complete.

# Ensure the Launch the First steps console option is selected; then click on Finish

🔶 Profile Management Tool 8.0 📃 🗆 🗙
Profile Creation Complete
The Profile Management Tool created the profile successfully.
Use the First steps console to run an installation verification test, start and stop the application server, or link to other information and features that relate to the application server.
☑ Launch the First steps console.
To start the Profile Management Tool later, use the <b>PMT</b> command in the <i>app_server_root</i> /bin/ProfileManagement directory or the option in the First steps console.

# Select Installation verification

WebSphere Application Server - First steps - Dmgr01	_ ×
WebSphere Application Server	IBM.
First steps	
Installation verification Confirm that your server is installed and that it can start properly.	
Start the deployment manager Start the deployment manager and its applications.	
Administrative console Install and administer applications.	
WebSphere Customization Toolbox Launch this toolbox to access the Profile Management Tool and work with profiles, or to access the Migration Management Tool and migrate WebSphere Application Server 6.0, 6.1 or 7.0 profiles to version 8.0.	
Information center for WebSphere Application Server Learn more about WebSphere Application Server and explore sample applications.	
IBM Education Assistant for WebSphere software Access multimedia content for WebSphere Application Server version 8.0 and other IBM software products.	
Exit	

Once complete you should see the following messages with the final message being: **The installation verification is complete.** 

🗳 First steps output - Installation verific	cation		
[10/4/12 15:53:00:855 IST] 0000000a wtp	W org.eclipse.jst.j2ee.commonarchivecore.internal.strategy.LoadStrategy/mpl createFile File	eNotF	0 🔺
[10/4/12 15:53:00:856 IST] 0000000a wtp	W org.eclipse.jst.j2ee.commonarchivecore.internal.strategy.LoadStrategyImpl createFile File	eNotFi	0
[10/4/12 15:53:00:857 IST] 0000000a wtp	W org.eclipse.jst.j2ee.commonarchivecore.internal.strategy.LoadStrategyImpl createFile File	eNotFi	0
(10/4/12 15:53:00:858 IST) 0000000a wtp	W org.eclipse.jst.j2ee.commonarchivecore.internal.strategy.LoadStrategyImpl createFile File	eNotFi	0
[10/4/12 15:53:00:860 IST] 0000000a wtp	W org.eclipse.jst.j2ee.commonarchivecore.internal.strategy.LoadStrategyImpl createFile File	eNotFi	0
[10/4/12 15:53:00:861 IST] 0000000a wtp	W org.eclipse.jst.j2ee.commonarchivecore.internal.strategy.LoadStrategyImpl createFile File	eNotFi	0
[10/4/12 15:53:00:862 IST] 0000000a wtp	W org.eclipse.jst.j2ee.commonarchivecore.internal.strategy.LoadStrategyImpl createFile File	eNotFi	0
[10/4/12 15:53:00:863 IST] 0000000a wtp	W org.eclipse.jst.j2ee.commonarchivecore.internal.strategy.LoadStrategyImpl createFile File	eNotFi	0
[10/4/12 15:53:00:864 IST] 0000000a wtp	W org.eclipse.jst.j2ee.commonarchivecore.internal.strategy.LoadStrategyImpl createFile File	eNotFi	0
[10/4/12 15:53:00:865 IST] 0000000a wtp	W org.eclipse.jst.j2ee.commonarchivecore.internal.strategy.LoadStrategyImpl createFile File	eNotFi	0
[10/4/12 15:53:00:866 IST] 0000000a wtp	W org.eclipse.jst.j2ee.commonarchivecore.internal.strategy.LoadStrategyImpl createFile File	eNotFi	0
[10/4/12 15:53:00:868 IST] 0000000a wtp	W org.eclipse.jst.j2ee.commonarchivecore.internal.strategy.LoadStrategyImpl createFile File	eNotFi	0
[10/4/12 15:53:00:869 IST] 0000000a wtp	W org.eclipse.jst.j2ee.commonarchivecore.internal.strategy.LoadStrategyImpl createFile File	eNotFi	0
[10/4/12 15:53:00:870 IST] 0000000a wtp	W org.eclipse.jst.j2ee.commonarchivecore.internal.strategy.LoadStrategyImpl createFile File	eNotFi	0
[10/4/12 15:53:00:871 IST] 0000000a wtp	W org.eclipse.jst.j2ee.commonarchivecore.internal.strategy.LoadStrategyImpl createFile File	eNotFi	0
[10/4/12 15:53:00:872 IST] 0000000a wtp	W org.eclipse.jst.j2ee.commonarchivecore.internal.strategy.LoadStrategyImpl createFile File	eNotFi	0
[10/4/12 15:53:00:873 IST] 0000000a wtp	W org.eclipse.jst.j2ee.commonarchivecore.internal.strategy.LoadStrategyImpl createFile File	eNotFi	0
[10/4/12 15:53:01:667 IST] 0000000a wtp	W org.eclipse.jst.j2ee.commonarchivecore.internal.strategy.LoadStrategyImpl createFile File	eNotFi	0
[10/4/12 15:53:01:668 IST] 0000000a wtp	W org.eclipse.jst.j2ee.commonarchivecore.internal.strategy.LoadStrategyImpl createFile File	eNotFi	0
WTL0040I: 63 errors/warnings are detected in the	/opt/IBM/WebSphere/AppServer/profiles/AppSrv01/logs/server1/SystemOut.log file		=
WTL0070I: The Installation Verification Tool verificat	tion succeeded.		
WTL0080I: The installation verification is complete.			
			Ŧ
I		)	

• You have now competed the setup of the Application Server on Node1.

Redo these steps on Node2.

•

## 3.4 Install IBM HTTP Server (IHS) V8

NOTE: In this scenario we install the HTTP Server on the same machine as the DM

Download the following WAS Supplemental images/zip files into the folder **/opt/software/WAS80Sup** on your IHS system; the four image/zip files are:

CZM91ML.zip CZM94ML.zip CZM95ML.zip CZXR9ML.zip

(rotodoubprovm766 MX8080sup) = 1s Copyright.txt disk1 disk2 disk3 disk4 lafiles readme_appclient readme_ins readme_plugclient readme_plugins readme_wct Remote_Installation_Tool_for_IBM i repository.com	Unzip	thes	se :	zip	files	in	the	WAS80Su	o folde	r and you	should s	ee follo	owing folders/files:	
Copyright.txt diskl disk2 disk3 disk4 lafiles readme_appclient readme_ihs readme_plugclient readme_plugins readme_wct Remote_Installation_Tool_for_IBM_i repository.cor	[root@dubx	pcvm766	WAS86	)Sup]#	ls		reposito	,,						
	Copyright.	txt dis	skl d	lisk2	disk3	disk4	lafiles	<pre>readme_appclient</pre>	<pre>readme_ihs</pre>	<pre>readme_plugclient</pre>	readme_plugins	<pre>readme_wct</pre>	<pre>Remote_Installation_Tool_for_IBM_i</pre>	repository.config

Start the Installation Manager which you should have installed earlier.

Select <b>F</b> i	i <b>le</b> then	Preference	s and in	the F	Preference	dialog se	elect <b>Add</b>	Repository	y
×									

Preferences			
[	Repositories		(>* = →* ▼
Repositories Appearance	Repositories:		
Files for Bollback	Location	Connection	Add <u>R</u> epository
≬ Help	/opt/software/WAS80DM/repository.config	?	Edit Repository
Internet	/opt/software/WAS80App/repository.config	?	
Passport Advantage			Remo <u>v</u> e Repository
Updates			Move <u>Up</u>
			Move Down
			<u>C</u> lear Credentials
			Test Connections
	Service repositories are remote locations where upd Installation Manager itself) are stored. Search service repositories during installation and	lates or extensions to d updates. Restore	Defaults
		Restore	Deraults Apply
0			OK Cancel

Select the **Add Repository**... button and enter the details to the path for the Supplementary **repository.config** file. Select **OK** to continue...

💁 Add Repository	
Add a repository Specify a repository and add to the repository preference list.	
Repository:	
/opt/software/WAS80Sup/repository.config	▼ <u>B</u> rowse
ОК	Cancel

From the Installation Manager main window select Install. This will pickup that the HTTP Server, Plugins and Toolbox is now to be installed.

Select the following three options (as in the next screen shot): 1. IBM HTTPServer for WAS

- 2. 3. Web Server Plug-ins for IBM WAS WebSphere Customization Toolbox

# Do NOT select Application Client for IBM WAS

nstall Packages			
Select packages to install:			
ካ Installation Packages	Status	Vendor	License Key Type
ᠵ 🗆 🗊 Application Client for IBM WebSphere Application Server			
🗆 🕼 Version 8.0.0.0		IBM	
ᠵ 🗹 🎁 IBM HTTP Server for WebSphere Application Server			
🗹 🕠 Version 8.0.0.0	Will be installed	IBM	
ᠵ 🗌 🧊 IBM WebSphere Application Server	Installed		
🗆 🕠 Version 8.0.0.0	Installed	IBM	
🗢 🗆 🗊 IBM WebSphere Application Server Network Deployment	Installed		
🗆 🕠 Version 8.0.0.0	Installed	IBM	
🗆 🧊 Pluggable Application Client for IBM WebSphere Applicatio	1		
ᠵ 🗹 🧊 Web Server Plug-ins for IBM WebSphere Application Serve	ŧ		
🗹 🕠 Version 8.0.0.0	Will be installed	IBM	
🔻 🗹 🎁 WebSphere Customization Toolbox			
☑ 🕼 Version 8.0.0.0	Will be installed	IBM	
□ Show <u>a</u> ll versions		Check for Other Ver	sions, Fixes, and Extensions
Details			
<b>VebSphere Customization Toolbox 8.0.0.0</b> WebSphere Customization Toolbox provides tools to simply and r <u>More info</u> • Repository: /opt/software/WAS80Sup	apidly customize a	WebSphere Applicati	on Server environment

Accept the license agreement and **Next** to continue...

1	IBM Installation Manager				
	Install Parkanes				
	Read the following license agreements carefully.				
	Install Licenses Location Features Summary				
	International Program License Agreement				
	Part 1 - General Terms				
	BY DOWNLOADING, INSTALLING, COPYING, ACCESSING, CLICKING ON AN "ACCEPT" BUTTON, OR OTHERWISE USING THE PROGRAM, LICENSEE AGREES TO THE TERMS OF THIS AGREEMENT. IF YOU ARE ACCEPTING THESE TERMS ON BEHALF OF LICENSEE, YOU REPRESENT AND WARRANT THAT YOU HAVE FULL AUTHORITY TO BIND LICENSEE TO THESE TERMS. IF YOU DO NOT AGREE TO THESE TERMS,				
	- DO NOT DOWNLOAD, INSTALL, COPY, ACCESS, CLICK ON AN "ACCEPT" BUTTON, OR USE THE PROGRAM; AND				
	- PROMPTLY RETURN THE UNUSED MEDIA, DOCUMENTATION, AND PROOF OF ENTITLEMENT TO THE PARTY FROM WHOM IT WAS OBTAINED FOR A REFUND OF THE AMOUNT PAID. IF THE PROGRAM WAS DOWNLOADED, DESTROY ALL COPIES OF THE PROGRAM.				
	1. Definitions				
	"Authorized Use" - the specified level at which Licensee is authorized to execute or run the Program. That level may be measured by number of users, millions of service units ("MSUs"), Processor Value Units ("PVUs"), or other level of use specified by IBM.				
	"IBM" - International Business Machines Corporation or one of its subsidiaries.				
	"License Information" ("LI") - a document that provides information and any additional terms specific to a Program. The Program's Ll is available at www.ibm.com/software/sla. The Ll can also be found in the Program's directory, by the use of a system command, or as a booklet included with the Program.				
	*Program* - the following, including the original and all whole or partial copies: 1) machine-readable instructions and data, 2) components, files, and modules, 3) audio-visual content (such as images, text, recordings, or pictures), and 4) related licensed				
	$\bigcirc$ I <u>d</u> o not accept the terms in the license agreement				
(	3     < <u>Back</u> <u>Install</u> Cancel				

# Specify the path for each install item. I used the default paths for each. Select **Next** to continue.

Install Packages			
The packages will be in	nstalled into the indicated packa	ge groups. Select the package group to change the installat	on directory.
Install License	es Location Feature	s Summary	
Package Group Name		Installation Directory	Architecture
🔻 🔨 IBM HTTP Server 🕯	V8.0	/opt/IBM/HTTPServer	
IBM HTTP Serve	er for WebSphere Application Se	r'	
Veb Server Plug-	ins for IBM WebSphere Applicati	oi /opt/IBM/WebSphere/Plugins	
Web Server Plu	IG-INS FOR IBM WEDSphere Applic	at	
WebSphere Custo	stomization Toolbox 8.0.0.0		
websphere cu			
Package Group Name:	IBM HTTP Server V8.0		
Installation Directory:	/opt/IBM/HTTPServer		B <u>r</u> owse
	<u>.</u>		
Details Shared Resources Directory: /opt/IBM/IMShared		Disk Space Information	
		Volume Available Space	
		/ 21.87 GB	
		< <u>B</u> ack <u>N</u> ext > Inst	all Cance

Select the features to install (as seen below) and Next to continue...

9	IBM Installation Manager	- 0	X
	Install Packages	~	
	Select the features to install.	7_	
		Canadian	
	Install Licenses Location Features Summary		
	Features		
	▼ 🖃 🖗 IBM HTTP Server for WebSphere Application Server 8.0.0.0		
	マ 🗏 🚯 Architecture Selection		
	IBM HTTP Server 32-bit with Java, Version 6		
	☑ IBM HTTP Server 64-bit with Java, Version 6		
🗢 🖃 🗊 Web Server Plug-ins for IBM WebSphere Application Server 8.0.0.0			
マ 🖻 🕼 IBM Runtime Environment for Java			
	IBM 32-bit Runtime Environment for Java, Version 6		
	IBM 64-bit Runtime Environment for Java, Version 6		
	▼ 🗹 🗊 WebSphere Customization Toolbox 8.0.0.0		
	☑ Web Server Plug-ins Configuration Tool		
	Profile Management Tool (z/OS only)	5	
	Internation Mananenem Tool	<b>_</b>	
	Show dependencies Expand All Collapse All Restore Defa	ault	
	🜮 Selected by Installation Manager because of dependencies		
	Details		
	IBM HTTP Server for WebSphere Application Server 8.0.0.0		4
	IBM HTTP Server for WebSphere Application Server provides advanced web server capabilities with consistent management and security in a WebSphere Application Server environment. IBM HTTP Server for WebSphere Application Server is based on Apache HTTP Server.		
	Disk Space Information		
	•		•
(	< Back	ancel	
_			

Enter the port you want HTTP to run on (typically port 80) and **Next** to continue...

0	IBM Installation Manager		
	Install Packages	ne packages.	
	Install Licenses	Location Features Summary	
	▽ () IBM HTTP Server for Wel ♥ Web Server Configura	Configuration for IBM HTTP Server for WebSphere Application Server 8.0.0.0 Web Server Configuration	
		Specify a port number for IBM HTTP Server to communicate. The default port is 80. If the default port is already in use, then change to another port that is available. Running IBM HTTP Server without root or Administrative privileges might restrict use of ports below 1024. HTTP port: 80	
At this summary screen select **Install** to start the installation process.

nstall Packages	
Review the summary information.	
Install Licenses Location	Features Summary
Target	
Shared Resources Directory: /opt/IBM/IMSh	ared
Packages	
Packages	Installation Directory
▼ 📐 IBM HTTP Server V8.0	/opt/IBM/HTTPServer
🗢 🧊 IBM HTTP Server for WebSphere Ap	oplication Sen
👂 🏠 Architecture Selection	
🗢 🔩 Web Server Plug-ins for IBM WebSphe	re Applicatior /opt/IBM/WebSphere/Plugins
🗢 🧊 Web Server Plug-ins for IBM WebSp	phere Applicat
🕨 🗞 IBM Runtime Environment for Jav	/a
ళ ్లి WebSphere Customization Toolbox V8	0 /opt/IBM/WebSphere/Toolbox
🗢 🧊 WebSphere Customization Toolbox	8.0.0.0
🚯 Web Server Plug-ins Configuratio	n Tool
🚯 Profile Management Tool (z/OS o	nly)
🚯 z/OS Migration Management Tool	
nvironment	Disk Space Information
nglish	Total Available Space
	/ 21.87 G
	Total Download Size: 236.00 MB
	Total Installation Size: 853.06 MB
Repository Information	
	< Back Next > Install Cance

After a few moments the following screen will appear:

Now configure the HTTP Server; select **Webphere Customization Toolbox** and then **Finish**.

V The packages are	installed. <u>View Log File</u>		
The following packages were installed: Which program do you want to start?			
ত ং <sub>দa</sub> IBM HTTP Server V8.0	WebSphere Customization Toolbox		
IBM HTTP Server for WebSphere Application Server	○ <u>N</u> one		
Ve Web Server Plug-ins for IBM WebSphere Application Se			
Web Server Plug-Ins for IBM WebSphere Application WebSphere Customization Toolbox V8.0			
WebSphere Customization Toolbox 8.0.0.0			
Note: If the packages support rollback, the temporary director	y contains rollback files for installed packages. You can		
delete the files on the <u>Files for rollback</u> preference page.	· · ·		

# Select Web Server Plug-ins Configuration Tool and then select Launch Selected Tool

🔶 WebSphere Customization Toolbox 8.0	□×
<u>F</u> ile <u>W</u> indow <u>H</u> elp	
🛱 🕀 Welcome	
⊕ Welcome 🕱	- 0
Nelcome to the WebSphere Customization Toolbox	
Select a tool in the following list to display the welcome information for that tool. To launch tool, select a tool in the list, and click <i>Launch Selected Tool</i> . Alternatively, select <i>Window</i> > <i>Open Perspective</i> and select a tool in the list.	a
List of provided tools:	
Profile Management Tool (z/OS only)	
z/OS Migration Management Tool	
Web Server Plug-ins Configuration Tool	
Launch Selected Tool	
Welcome information for selected tool	
Use the Web Server Plug-ins Configuration Tool to configure the Web server plug-ins for IBM WebSphere Application Server Version 8.0 so that your Web server and application server can communicate with each other. Learn more about configuring the Web server plug-ins from the Web Server Plug-ins Configuration Roadmap for WebSphere Application Server Version 8.0 or the online information center.	
Web Server Plug-ins Configuration Tool	

# select Add...

\varTheta WebSphere Cus	stomization Toolbox 8.0	_ <b>_</b> ×
<u>F</u> ile <u>W</u> indow <u>H</u> elp	p	
📑 💿 Web Serve	r Plug-ins Configuration Tool 💮 Welcome	
🔕 Web Server Plug	g-in Runtime Locations	- 8
Name	Location	A <u>d</u> d
		<u>R</u> emove
		R <u>o</u> admap
Server Plug	g-in Configurations 🔕 Web Server Plug-in Response F	ile
Web Server Defin	Web Server Ty Plug-in Configuration File	<u>C</u> reate
		Delete

Enter the name of the HTTP Server and the location to were your plugins were installed earlier. Select Finish to continue

٠			WebSphere Customization Toolbox 8.0		-	• ×
<u>F</u> ile	<u>W</u> indow	<u>H</u> elp				
Ħ	🚫 Web S	erver Pl	ug-ins Configuration Tool 💮 Welcome			
<b>8</b> W	/eb Server	Plug-in	Runtime Locations			
Na	\$		Web Server Plug-ins Configuration Tool 8	.0	×	
	Add W	eb Serv	er Plug-in Location			
	Add a p	revious	y installed Web server plug-in location to your working	ng set.		ıp
	Web ser	ver plug	I-in location			
	<u>N</u> ame:	ihs				
4	<u>L</u> ocatio	n: /opt/	IBM/WebSphere/Plugins		B <u>r</u> owse	
<b>8</b> W	/					- 8
We	8					:e
			Cancel		<u>F</u> inish	e

# Select Create... for the Web Server Plug-in Configuration

<b>+</b>	WebSphere Customization Toolbox 8.0	_ = ×
<u>F</u> ile <u>W</u> indow <u>H</u> elp		
🖹 🔕 Web Server Plu	g-ins Configuration Tool 🕀 Welcome	
🔕 Web Server Plug-in R	untime Locations	- 8
Name	Location	A <u>d</u> d
ihs	/opt/IBM/WebSphere/Plugins	<u>R</u> emove
		R <u>o</u> admap
4	•	Ì
🔕 Web Server Plug-in C	onfigurations 🕲 Web Server Plug-in Response File	- 0
Web Server Definiti W	eb Server Typ Plug-in Configuration File	<u>C</u> reate
		D <u>e</u> lete

Select the type of HTTP Server which is **IBM HTTP Server V8**. Select **Next** to continue...

Web Server Plug-ins Configuration Tool 8.0	
Web Server Selection $\tilde{L}$	E g
Select the Web server to configure. Verify that the Web server you select to configure has been installe	ed.
O <u>A</u> pache Web Server V2.2	
○ <u>L</u> otus Domino Web Server V8	
○ Lotus <u>D</u> omino Web Server V7	
○ <u>S</u> un Java System Web Server V6.1 or Sun Java System Web Server V7.0	
< <u>B</u> ack <u>N</u> ext > <u>Finish</u> Can	cel

selected 64 bit, then Next to continue...

🕀 Web Server Plug-ins Configuration Tool 8.0	
Web Server Architecture Selection	10
<b>t</b>	B
Select the architecture of your installed target web server.	
0 64 bit	
○ <u>0</u> 4 bit	

Specify the location of the httpd.conf file and set Web server port=80 and then Next to continue

Web Server Plug-ins Configuration Tool 8.0	
Web Server Configuration File Selection 축	E S
Select the Web server configuration file and identify the Web server port to configure the Web se definition.	rver
Select the existing IBM HTTP Server httpd.conf file:	
/opt/IBM/HTTPServer/conf/httpd.conf	Browse
Specify the Web server port: 80	
< <u>B</u> ack <u>N</u> ext > Einish	Cancel

Specify the IHS Admin UserID=**ishadmin** and Password; then **Next** to continue

Web Server Plug-ins Configuration Tool 8.0				
Setup IBM HTTP Server Administration Ser	rver			
Optionally configure an administrative server to from a WebSphere Application Server administr server to control the communication between t	administer the Web server. You can manage the rative console by using the IBM HTTP Server admi hem.	Web server nistrative		
☑ <u>S</u> etup IBM HTTP Server Administration Serve	er			
Specify a port number for IBM HTTP Server a If the default port is already in use, then char administation server without root or Administ <u>H</u> TTP Administration Port: 8008 Optionally create a user ID and password to a	idministation server to communicate. The default ige to another port that is available. Running IBM H trative privileges might restrict use of ports below authenticate to the IBM HTTP Server Administation	port is 8008. HTTP Server / 1024.		
from the WebSphere Application Server administrative console. The user ID and password is encrypted and stored in the conf/admin.passwd file. You can create additional user IDs after the configuration by using the htpasswd utility.				
☑ <u>C</u> reate a user ID for IBM HTTP Server Adm	ninistration Server authentication			
<u>U</u> ser ID:	lihsadmin			
<u>P</u> assword:	•••••			
C <u>o</u> nfirm password:	•••••			
(	< <u>B</u> ack <u>N</u> ext > <u>Finish</u>	Cancel		

Specify the UserID=ihsadmin, and Group=ihsadmins, then Next to continue

🔶 Web Server Plug-ins Configuration Tool 8.0	
Setup IBM HTTP Server Administration Server	
Specify a system user ID and group. The user ID is granted write a Administration Server and web server plug-in configuration files. system, then choose to create a new system user and group with	access to IBM HTTP Server, IBM HTTP Server If the user ID or group does not exist on the the credentials.
User ID: ihsadmin	
<u>G</u> roup: ihsadmins	
☑ <u>C</u> reate a new unique system user ID and group using the crede	ntials.

Give your web server a definition name. Select **Next** to continue...

Web Server Definition Name				i a
Use a Web server definition to manage a Web serv or the wsadmin tool. The definition name must be administrative console.	er through the V unique because	/ebSphere Applica this name is use	ation Server admin d to identify this W	istrative console leb server in the
Specify a unique Web server definition name:				
webserver1				
The web server definition frame insist for the endpt $/ \{ , :; = +7   <>6, \%' $ [] > # \$ $\{ \}$ Note: a period(.) is not valid if it is the first charact	er.		wing special chara	iccers of space.
	< <u>B</u> ack	<u>N</u> ext >	Cancel	<u>F</u> inish

Under **Configuration scenario** select "(**Remote**) **Host name or IP address for the application server**" and enter the full DNS name for your HTTP server. Select **Next** to continue...

🜵 Web Server Plug-ins Configuration Tool 8.0
Configuration Scenario Selection
Configure the Web server plug-ins to the computer where the Web server exists. When the Web server and application server are not on the same computer, choose the remote configuration scenario. When both Web server and application server are on the same computer, choose the local configuration scenario. In the local scenario, the Web server definition you create in this wizard is defined automatically in the application server.
Configuration scenario
(Remote) Host name or IP address of the application server
dubxpcvm766.mul.ie.ibm.com
<ul> <li>Local) Installation location of WebSphere Application Server</li> </ul>
Browse
For the remote configuration scenario, the host name must be accessible on the network through one of the following address formats:
Fully qualified domain name system (DNS) host name The default short DNS host name

L

Finally the Summary screen; select <b>Configure</b> to configure the IBM HTTP Server.
Plug-in Configuration Summary
Manual configuration steps are required before starting the Web server. Follow the configuration procedure in the Web Server Plug-in Configuration Roadmap. Afterwards, you may start up your Web server and application server to test your configuration.
Web server to configure: IBM HTTP Server V8
Web server definition: webserver1
Plug-in configuration file: /opt/IBM/WebSphere/Plugins/config/webserver1/plugin-cfg.xml
< <u>B</u> ack Configure > Cancel Einish

Once complete you should see the following... Select **Finish** to close the wizard.

Web Server Plug-ins Configuration Tool 8.0	
Pixig-in Configuration Result	i a
Success	
The configuration has been completed successfully.	
Manual configuration steps are required before starting the Web server. Follow the configuration procedure in the Web Server Plug-in Configuration Roadmap. Afterwards, you may start up your Web server and application server to test your configuration.	
Launch the plug-in configuration roadmap	
Manual configuration script: /opt/IBM/WebSphere/Plugins/bin/configuredubxpcvm766.sh	≡
Web server type configured:	
Web server definition:	
dubxpcvm766	
Plug-in configuration file	-
/opt/IBM/WebSphere/Plugins/config/dubxpcvm766/plugin-cfg.xml	
۱۱	•
	mcol
< <u>Back</u> Configure > <u>Finish</u> Ca	incel

#### 3.5 Update DM, Applications Server and IHS to required Fixpack and iFixes

#### IBM Connections V4.5 requires the following WAS updated: 1. WAS V8 Fixpack V8.0.0.5

- 2. Additional WAS V8 iFixes; they are:
- PM62615 Here is Fix Central iFix for PM62615
- PM71430 Here is Fix Central iFix for PM71430

#### 1. How to update your WAS V8 environment to V8.0.0.5

Repeat these Steps for each of the following system: DM, WAS(Application Servers) and the IHS system

Stop all servers (DM, WAS, IHS) before installing the fixpacks

Launch the Installation Manager and select the **Update** link... and on the next screen select the **Update all** check box; You may be requested to enter your IBM registered credentials at this point.

Note: The next screen shown is an example of what you would see if the DM, Application server and IHS co-existed on the same machine

Select Next to continue

M Installation Manager	-	
Jpdate Packages Select a package group to find updates for.		C.
Package Group Name	Directory	
₽ <sub>8</sub> , IBM HTTP Server V8.0	/opt/IBM/HTTPServer	
%a IBM WebSphere Application Server Network Dep	oloy /opt/IBM/WebSphere/DeploymentManager	
°s₀ IBM WebSphere Application Server V8.0	/opt/IBM/WebSphere/AppServer	
ଞ୍ଜ Web Server Plug-ins for IBM WebSphere Applica	tior /opt/IBM/WebSphere/Plugins	
🗞 WebSphere Customization Toolbox V8.0	/opt/IBM/WebSphere/Toolbox	
☑ Update <u>a</u> ll Details IBM HTTP Server V8.0		
Update <u>a</u> ll Details BM HTTP Server V8.0  Shared Resources Directory: /opt/IBM/IMShared Update Directory: /opt/IBM/IMShared		
Update <u>a</u> ll Details BM HTTP Server V8.0 Shared Resources Directory: /opt/IBM/IMShared Installation Directory: /opt/IBM/HTTPServer Selves Directory: /opt/IBM/HTTPServer		
Update all Details IBM HTTP Server V8.0 Shared Resources Directory: /opt/IBM/IMShared Installation Directory: /opt/IBM/HTTPServer Eclipse IDE: /opt/IBM/HTTPServer Translations: English		
Update all Details IBM HTTP Server V8.0 Shared Resources Directory: /opt/IBM/IMShared Installation Directory: /opt/IBM/HTTPServer Eclipse IDE: /opt/IBM/HTTPServer Translations: English Installed Packages and Eixes		
Update <u>all</u> Details IBM HTTP Server V8.0 Shared Resources Directory: /opt/IBM/IMShared Installation Directory: /opt/IBM/HTTPServer Eclipse IDE: /opt/IBM/HTTPServer Translations: English Installed Packages and Fixes IBM HTTP Server for WebSphere Application Server	·8.0.0.0	
<ul> <li>✓ Update all</li> <li>Details</li> <li>BM HTTP Server V8.0</li> <li>Shared Resources Directory: /opt/IBM/IMShared</li> <li>Installation Directory: /opt/IBM/HTTPServer</li> <li>Eclipse IDE: /opt/IBM/HTTPServer</li> <li>Translations: English</li> <li>Installed Packages and Fixes</li> <li>IBM HTTP Server for WebSphere Application Server</li> </ul>	·8.0.0.0	
<ul> <li>✓ Update <u>a</u>ll</li> <li>Details</li> <li>IBM HTTP Server V8.0</li> <li>Shared Resources Directory: /opt/IBM/IMShared</li> <li>Installation Directory: /opt/IBM/HTTPServer</li> <li>Eclipse IDE: /opt/IBM/HTTPServer</li> <li>Translations: English</li> <li>Installed Packages and Fixes</li> <li>IBM HTTP Server for WebSphere Application Server</li> </ul>	-8.0.0.0	

Validation and preparation checks will then happen and after a few minutes you will get this next screen. Accept the licence agreement and then select **Next** to continue...

9	IBM Installation Manager				
	IBM Installat         Update Packages         Read the following license agreements carefully.         Updates         Updates         Updates         Summa         IBM HTTP Server for WebSphere Application Server         Software License Agreement         IBM WebSphere Application Server         Software License Agreement         Web Server Plug-ins for IBM WebSphere Application Server         Software License Agreement         WebSphere Customization Toolbox         Software License Agreement	International Program License Agreement Part 1 - General Terms BY DOWNLOADING, INSTALLING, COPYING, ACCESSING, CLICKING ON AN "ACCEPT" BUTTON, OR OTHERWISE USING THE PROGRAM, LICENSEE AGREES TO THE TERMS OF THIS AGREEMENT. IF YOU ARE ACCEPTING THESE TERMS ON BEHALF OF LICENSEE, YOU REPRESENT AND WARRANT THAT YOU HAVE FULL AUTHORITY TO BIND LICENSEE TO THESE TERMS. IF YOU DO NOT AGREE TO THESE TERMS, - DO NOT DOWNLOAD, INSTALL, COPY, ACCESS, CLICK ON AN "ACCEPT" BUTTON, OR USE THE PROGRAM; AND - PROMPTLY RETURN THE UNUSED MEDIA, DOCUMENTATION, AND PROOF OF ENTITLEMENT TO THE PARTY FROM WHOM IT WAS OBTAINED FOR A REFUND OF THE AMOUNT PAID. IF THE PROGRAM WAS DOWNLOADED, DESTROY ALL COPIES OF THE PROGRAM. 1. Definitions			
		"Authorized Use" - the specified level at which Licensee is authorized to execute or run the Program. That level may be measured by number of users, millions of service units ("MSUs"), Processor Value Units Print All	<b>▼</b> 		
	O I do not accept the terms in the license agreements				
0		< <u>B</u> ack <u>N</u> ext > <u>Update</u> Cancel			

The update installer will now collect the files needed to do the update/install; this will take a few minutes...

Once completed, select the **Update** button. This will update your server to the **latest fixpack** for WAS 8.0 which is (at the time of writing) ie **V8.0.0.5**.

Note: IBM Connections V4.5 at release requires WAS V8 fix pack 8.0.0.5. At the time of writing this was the latest fixpack available. Please check with IBM Connections V4.5 documentation for support for later releases of WAS fixpacks.

IBM Installation Manager		
Update Packages Review the summary information.		E
Update Packages Updates Licenses	Summary	ry )
Taryet		
Package Group Name	Installation Di	Directory
IBM HTTP Server V8.0	/opt/IBM/HTTI	TPServer
IBM WebSphere Application Server Network Deplo	y /opt/IBM/Web	bSphere/DeploymentManager
IBM WebSphere Application Server V8.0	/opt/IBM/Web	bSphere/AppServer
Web Server Plug-ins for IBM WebSphere Applicatio	r /opt/IBM/Web	bSphere/Plugins
WebSphere Customization Toolbox V8.0	/opt/IBM/Web	bSphere/Toolbox
Shared Resources Directory: /opt/IBM/IMShared		
Updates		
Features To Install	A	Features To Remove
マ <sup>e</sup> e, IBM HTTP Server V8.0	=	
▽ 🧊 IBM HTTP Server for WebSphere Applicatio	n Server 8.	
🚯 IBM HTTP Server 64-bit with Java, Versio	n 6	
ଙ୍କୃ IBM WebSphere Application Server Network I	Deployment	
Dick Space Information	k Donlovmi 🛡	
Disk space mormation		Tabl Audiable Cases
1		21.00 38
Total Download Size: 1.93 GB		
Total Installation Size: 4.40 GB		
Repository Information		
٩		a Dask Hant a Hindata Consel
(J)		< <u>Dack</u> <u>Mext</u> <u>Doate</u> Cancel

After several minutes the update will complete returning the following screen. Now select **Finish** to exit the Update installer.

۵	IBM Installation Manager	_ = = :
U	pdate Packages	
	The packages are updated. <u>View Log File</u>	
	Undate Installation Directory	
	✓ % IBM WebSphere Application Server Network Deployment V8.0 /opt/IBM/WebSphere/Deployn ⑥ IBM WebSphere Application Server Network Deployment 8.0.0.	
	✓ <sup>®</sup> ta IBM WebSphere Application Server V8.0 /opt/IBM/WebSphere/AppServ	
	<ul> <li>\$\screwtlefty\$ \$\screwtlefty\$ \$\screwt</li></ul>	
	✓ <sup>®</sup> <sub>G</sub> WebSphere Customization Toolbox V8.0 /opt/IBM/WebSphere/Toolbox Ø WebSphere Customization Toolbox 8.0.0.5	
	Note: If the packages support rollback, the temporary directory contains rollback files for installed packages. You can delete the files on the <u>Files for rollback</u> preference page.	
?		<u>F</u> inish

You have now updated to V8.0.0.5

# 2. Additional WAS V8 iFixes required to support IBM Connections V4.5

There are additional iFixes that are required to be installed for IBM Connections V4.5, and these are installed on the Deployment manager; they are:

- PM62615 Here is Fix Central iFix for PM62615
- <u>PM71430</u> Here is Fix Central iFix for PM71430

Steps - on the DM system do the following:

download the iFixes into separate folders and unzip them

Load Installation Manager and select Files, then Repositories

Deselect all exisitng Repositories; if any such exist

For each iFix select **Add Repositories** and navigate to the folder where the iFix was unzipped and select it's corresponding **repository.config** file as in the example screen shot below:

Select the locations of the iFixes and then Test Connections to verify

Deselect the option **Search service repositories during installation and updates** and select the **Apply** button Select **OK** to continue.

۵	Preferences		x
type filter text 🦼	Repositories		(¢, r, ¢, r, <b>v</b>
Repositories Appearance	Repositories:		
Files for Rollback	Location	Connection	Add <u>R</u> epository
Help	<ul> <li>/opt/software/WAS80DM/repository.config</li> <li>/opt/software/WAS80App/repository.config</li> </ul>	21	<u>E</u> dit Repository
Passport Advantage	/opt/software/WAS80Sup/repository.config     //opt/software/WAS80-IC45-IEixes/62615/repository.config	? <u>.</u>	Remove Repository
Updates	✓ /opt/software/WAS80-IC45-iFixes/71430/repository.config ✓ /opt/software/WAS80-IC45-iFixes/71430/repository.config	0	Move <u>U</u> p
			<u>M</u> ove Down
			<u>C</u> lear Credentials
			Test Connections
	Service repositories are remote locations where updates or ex Installation Manager itself) are stored.	ctensions to packaç	ges (including the
	Search service repositories during installation and updates	5.	
		Restore <u>D</u> e	faults <u>A</u> pply
0		ОК	Cancel

Select Update to continue

2	IBM Installation Mai	nager _	σx
<u>File</u> <u>H</u> elp			
IBM Installation Manager			
	Install Install software packages.		
	Update Discover and install updates and fixes to installed software packages.	Manage Licenses	
	Change installed software packages by adding or removing features and functions.	Uninstall	
<u>15M</u> .			

Select IBM WAS Network Deployment Manager (as in the screen shot below).. Select Next to continue

	IBM Ins		_ 🗆 X	
	Update Packages Select a package group to find updates for.			Es
	Package Group Name \$. IBM HTTP Server V8.0 \$. IBM WebSphere Application Server Network Deploymer \$. IBM WebSphere Application Server V8.0 \$. WebSphere Plug-ins for IBM WebSphere Application Ser \$. WebSphere Customization Toolbox V8.0	Directory /opt/IBM/HTTPServer /opt/IBM/WebSphere/DeploymentManager /opt/IBM/WebSphere/AppServer /opt/IBM/WebSphere/Plugins /opt/IBM/WebSphere/Toolbox	]	
	Update all Details UNIVIOLSEARCE Application Convert Network Deployment			
	Shared Resources Directory: /opt/IBM/IMShared     Installation Directory: /opt/IBM/WebSphere/DeploymentMa     Eclipse IDE: /opt/IBM/WebSphere/DeploymentManager     Translations: English	nager		
	Installed Packages and Fixes  IBM WebSphere Application Server Network Deployment 8.	0.0.5		
(	)	< <u>B</u> ack <u>N</u> ext :	> <u>U</u> pdate Ca	ncel

Select both iFixes, then  $\ensuremath{\textbf{Next}}$  to continue

٥		IBM In:	stallation Mana	iger			>
	Update Packages Select the fixes to install.						Es
		<i>I</i> . X					10
	Fixes		Recommended	Vendor			
	🗢 🗹 🗞 IBM WebSphere Application	n Server Network Deployr					
	🔻 🗹 🕅 IBM WebSphere Applicat	tion Server Network Depl	(				
	🗹 🕅 8.0.0.0-WS-WASND-IF	PM71430 8.0.0.20130122					
	🗹 🗊 8.0.0.5-WS-WASND-IF	PM62615 8.0.5.20130121					
	Details						A
	IBM WebSphere Application Se	erver Network Deploy	ment 8.0.0.5				
	IBM WebSphere Application Server I	Network Deployment is a	production-ready	Java Platform, Er	nterprise Edition	(Java EE) compliar	ıt
	application server for the deployme	nt of enterprise web serv	ices solutions for	dynamic e-busine	ess. It is the nex	t level in application	in l
	serving beyond the WebSphere App More info	lication Server base edition	on because it prov	/ides advanced w	eb services and	clustering capabili	ties.
	Repository: /var/ibm/Installation	/anager/installRegistry/m	ietadata				
							×
6	)			< Back	Next >	Update	Cancel
9	, ,					20000	

1

IBM Installation M	lanager		-	o x
Update Packages				2
Review the summary information.				Ð
Update Packages Updates Features Summary				
Target Location				
Package Group Name: IBM WebSphere Application Server Network	Deployment V8.0			
Installation Directory: /opt/IBM/WebSphere/DeploymentManager				
Shared Resources Directory: /opt/IBM/IMShared				
Updates				
Fix				
(1) In the version of application server remote Deprovment 6.0.0.3 (in (2) 8.0.0.0-WS-WASND-IFPM71430 8.0.0.20130122_1330     (2) 8.0.0.5-WS-WASND-IFPM62615 8.0.5.20130121_1338	staneu)			
Disk Space Information			Total Available Space 51.77 GB	
Total Download Size: 88.6 KB Total Installation Size: 275.5 KB				
Repository Information				
0	< <u>B</u> ack	<u>N</u> ext >	<u>U</u> pdate Cancel	

And after a few minutes the install will complete.

Select **Finish** to return to the Main screen; then **File > Exit** to exit the Installation Manager.

۵	IBM Installation Manager		_ = ×
Update Pac	kages		E.
	The packages are updated. <u>View Log Fil</u>	e	
	All the following updates were installed:		
	Update	Installation Directory	
	<ul> <li>▼ <sup>1</sup>/<sub>8</sub>, IBM WebSphere Application Server Network Deployment V8.0</li> <li>▼ <sup>(1)</sup>/<sub>8</sub> IBM WebSphere Application Server Network Deployment 8.0.0.5</li> <li>(1)</li> <li>(1)</li></ul>	/opt/IBM/WebSphere/Deplo	
	Note: If the packages support rollback, the temporary directory contains packages. You can delete the files on the <u>Files for rollback</u> preference pac	rollback files for installed Je.	
0			<u>F</u> inish

Install Steps for DB2

Copy the DB2 V10.1 install/image file to your machine.

Uncompress the files; then, as root, start the DB2 installer by running ./db2setup. You will see:



Select Install a Product	and then under	DB2 Enterprise	Server Edition	Version 10.1	select Install	New

<u> </u>	DB2 Setup Launchpad _ 🗆 🗙
Welcome	
Welcome Release information Pre-installation planning Upgrade information	Install a Product as root  Click Install New to launch the DB2 Setup wizard for the desired product and to install the product to a new location.
Install Data Studio components Exit	DB2 Enterprise Server Edition Version 10.1 DB2 Enterprise Server Edition is an ideal foundation for building on-demand, enterprise-wide solutions. For example, you can build multi-terabyte databases; high-performance, 24x7-availability, high-volume transaction-processing business solutions; or web-based solutions. Optional features for DB2 Enterprise Server Edition provide additional advanced product capabilities in areas such as compression, performance, workload management, and security. Install New
	DB2 Enterprise Server Edition Version 10.1 with the IBM DB2 pureScale Feature DB2 Enterprise Server Edition with the DB2 pureScale Feature provides clustering technology to DB2 products on distributed platforms. This feature improves the availability of DB2 data, extends the processing capacity of the environment, provides flexible ways to configure your environment, and increases transaction rates. Install New Errors Detected: There are no supported Remote Direct Memory Access (RDMA) capable network adapters available on this host. You must have at least one supported RDMA capable network adapter available in order to
IBM.	k

# click Next to continue

<u>ی</u>	DB2 Setup - DB2 Enterprise Server Edition	-	x
]			
1. Introduction	Welcome to the DB2 Setup wizard		
<ol> <li>Software License</li> <li>Agreement</li> </ol>	The DB2 Setup wizard will install DB2 Enterprise Server Edition. To continue, click Next.		
<u>3</u> . Installation type	······································		
4. Installation action			
5. Installation directory			
<u>6</u> . DAS user			
Z. Instance setup			
8. Partitioning options			
à Instanca awaina ucar			

Accept the license	agreement	and Next to	continue
			· · · · · · · · · · · · · · · · · · ·

<u></u>	DB2 Setup - DB2 Enterprise Server Edition	X
<u>1</u> . Introduction	Software License Agreement	
<ol> <li>Software License Agreement</li> </ol>	Please read the following license agreement carefully. " <image_path>/db2/license/en_US.iso88591/"</image_path>	
3. Installation type	IMPORTANT: READ CAREFULLY	
<ol> <li>Installation action</li> </ol>	Two license agreements are presented below.	-
5. Installation directory		
<u>6</u> . DAS user	<ol> <li>IBM International License Agreement for Evaluation of Programs</li> <li>IBM International Program License Agreement</li> </ol>	
<u>7</u> . Instance setup	If Licensee is obtaining the Program for purposes of productive use (other than evaluation, testing	
<u>8</u> . Partitioning options	trial "try or buy," or demonstration): By clicking on the "Accept" button below, Licensee accepts the	
<u>9</u> . Instance-owning user	IBM International Program License Agreement, without modification.	
1 <u>0</u> . Fenced user	If Licensee is obtaining the Program for the purpose of evaluation, testing, trial "try or buy," or	
11. Notification setup	demonstration (collectively, an "Evaluation"): By clicking on the "Accept" button below, Licensee	
12. Contact	accepts both (i) the IBM International License Agreement for Evaluation of Programs (the "Evaluation License"), without modification, and (ii) the IBM International Program License Agreement (the "IPI A")	
13. Summary	without modification.	
	The Evaluation License will apply during the term of Licensee's Evaluation.	
	The IPLA will automatically apply if Licensee elects to retain the Program after the Evaluation (or obtain additional copies of the Program for use after the Evaluation) by entering into a procurement agreement (e.g., the IBM International Passport Advantage or the IBM Passport Advantage Express agreements).	
	The Evaluation License and the IPLA are not in effect concurrently, neither modifies the other; and	r
	I accept the terms in the license agreement.	
	$\bigcirc$ I <u>do</u> not accept the terms in the license agreement.	
<u>  </u>		

# Select Typical and then Next to continue...

2 <u>4</u>	DB2 Setup - DB2 Enterprise Server Edition _ 🗆 🛛 🗙
1	
<u>1</u> . Introduction	Select the installation type
2. Software License	@ T. wirel. 070 _ 1170 MD
3. Installation type	© <u>Пуріса:</u> 970 - 1170 мв
4. Installation action	○ <u>C</u> ompact: 900 - 1090 MB
<u>5</u> . Installation directory	○ Custom: 900 - 1090 MB
<u>6</u> . DAS user	
<u>z</u> . Instance setup	Information about the installation type
A <u>8</u> . Partitioning options	Typical
<u>9</u> . Instance-owning user	The typical setup includes basic database server function, database administration tools, and most product features and functionality.
3 1 <u>0</u> . Fenced user	To add features for application development and other optional functionality later in the setup process
d 12. Notification setup	click Custom.
13 Summary	To view all available features and those selected for a typical installation, press the View Features button
10. 50mmary	View Features
	▲Back         Next ▶         Einish         Cancel         Help

# Select the Install DB2 Enterprise Server Edition Version on this computer then Next to continue

<u>\$</u>	DB2 Setup - DB2 Enterprise Server Edition _	o x
1. Introduction           2. Software License Agreement           3. Installation type           4. Installation action	Select installation, response file creation, or both The DB2 Setup wizard can install DB2 Enterprise Server Edition on this computer, create a response 1 that you can use to install this product on a computer later, or both. If you are setting up an Enterprise Server Edition partitioned database environment, you can also creater response file to install DB2 on the other computers that will act as database partition servers.	file ate a
<u>5</u> . Installation directory <u>6</u> . DAS user <u>7</u> . Instance setup <u>8</u> . Partitioning options	Install DB2 Enterprise Server Edition on this computer      Save my installation settings in a response file      No software will be installed on this computer.	
<ul> <li>9. Instance-owning user</li> <li>10. Fenced user</li> <li>11. Notification setup</li> <li>12. Contact</li> <li>13. Summary</li> </ul>	<ul> <li>Install DB2 Enterprise Server Edition on this computer and save my settings in a response file Response file name /root/db2ese.rsp</li> </ul>	
1	▲Back Next ► Einish Cancel ►	lelp

# Used the default path for the Directory; select **Next** to continue

<u>4</u>	DB2 Setup - DB2 Enterprise Server Edition	_ = ×
1		
1. Introduction	Select the installation directory	
<u>2</u> . Software License Agreement	The DB2 Setup wizard installs DB2 Enterprise Server Edition in the following different directory, type the path or click the ellipsis button and select anoth	directory. To select a er directory.
3. Installation type		
<u>4</u> . Installation action	Directory /opt/ibm/db2/V10.1	Space required: 964 MB
5. Installation director	<u></u>	Space available: 18057 MB
<u>6</u> . DAS user		

Use the default	names and direct	ory paths a	and ente	er a valio	l passwor	d. Selec	t Next to	o continue.
*	DB2 Setup -	DB2 Enterpris	e Server	Edition			_ 🗆 X	
1. Introduction	Set user inform	ation for th	e DB2 A	dministi	ration Ser	ver		
<ol> <li>Software License Agreement</li> </ol>	The DB2 Administration S tools. A user with a mini information for the DAS	ierver (DAS) runs o mal set of privilege	on your comp es is require	outer to provi d to run the D	de support req AS. Specify the	uired by the l required us	DB2 er	
<ol> <li>Installation type</li> </ol>								
<u>4</u> . Installation action	New user							
5. Installation directory	User name	dasusr1						
<u>6</u> . DAS user	UID					🗾 <u>U</u> se det	fault UID	
<u>Z</u> . Instance setup	Group name	dasadm1						
<u>8</u> . Partitioning options	CID	dasadini						
<u>9</u> . Instance–owning user	0.0					🗾 Use dei	rault <u>G</u> ID	
1 <u>0</u> . Fenced user	Password	•••••						
11. Notification setup	Confirm password	•••••						
12. Contact	Home directory	/home/dasusr1						
15. Summery	0.5.1.1							
	<u>Existing user</u>							
		<b>▲</b> <u>B</u> ack	<u>N</u> ext 🕨	<u>F</u> inish	Cancel		Help	

# Select Create a DB2 instance... select Next to continue...



BP2 Setup - DB2 Enterprise Server Edition	. o x
Introduction       Set up partitioning options for the DB2 instance         2. Software License Agreement       A DB2 instance can have one or more database partitions, which exist on one or more computers. Software partitioning options for this instance. The number of partitions specified will be reserved in the services file.         3. Installation type       Installation directory         6. DAS user       Single partition instance         7. Instance setup       The instance will reside only on this computer. Select this option if the instance will not be used partitioning options         9. Instance-owning user       Multiple partition instance         10. Fenced user       Selecting this option will create two response files. Refer to the DB2 Information Center to read a the additional steps needed to prepare your DFF environment.         12. Contact       To use this functionality, you must have a Database Partitioning Feature license.         13. Summary       Summary	Select in a about

Enter your DB2 instance owner and password; used the default names, and entered a valid password. Select **Next** to continue.

<u>ی</u>	DB2 Setup -	DB2 Enterprise Server Edition	_ = ×			
<ol> <li>Introduction</li> <li>Software License Agreement</li> <li>Installation type</li> </ol>	Set user information for the DB2 instance owner Specify the instance-owning user information for the DB2 instance. DB2 will use this user to perform instance functions, and will store instance information in the user's home directory. The name of the instance will be the same as the user name.					
4. Installation action	New user					
5. Installation directory	User name	db2inst1				
<u>6</u> . DAS user 7. Instance seturi	UID		✓ Use default UID			
8. Partitioning options	Group name	db2iadm1				
9. Instance-owning user	GID		☑ Use default <u>G</u> ID			
1 <u>0</u> . Fenced user	Password		Password			
11. Notification setup	Confirm password		- Tou must specify a value.			
12. Contact 13. Summary	Home directory	/home/db2inst1				
	$\bigcirc$ Existing user					
		▲ <u>Back</u> <u>N</u> ext ► <u>Finish</u> Cancel	Help			

Enter your feneral years and	nearly and Turned the default user near a	a a la at Maxet ta a a stinua
Foter vour tenced username and	password i used the detault user names.	. Select <b>Next</b> to continue.
Lince your removed aboundance and		

1. Introduction Set user information for the fenced	
1. Introduction Set user information for the fenced	
2. Software License Agreement       Specify the required information for the fenced user. Fen- procedures will execute under this user and group.         3. Installation type       New user         4. Installation action       New user         5. Installation directory       User name       db2fenc1         6. DAS user       Croup name       db2fadm1         7. Instance setup       Group name       db2fadm1         8. Partitioning options       GID       Password         9. Instance-owning user       Password       ••••••••         10. Vefication setup       Confirm password       ••••••••         12. Contact       Home directory       /home/db2fenc1         13. Summary       Existing user       User name       User name	USER ced user defined functions (UDFs) and stored

Select Do not set up your DB2 server to send notifications at this time, then Next to continue.

 BB2 Setup - DB2 Enterprise Server Edition
 \_ □ ×

1. Introduction	Set up notifications				
2. Software License Agrei	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				
<ol> <li>Installation type</li> </ol>	You need an unauthenticated SMTP server to send these notifications.				
4. Installation action					
5. Installation directory	Set up your DB2 server to send notifications				
<u>6</u> . DAS user					
<u>7</u> . Instance setup					
<u>8</u> . Partitioning options	Administration contact list location				
<u>9</u> . Instance-owning user	Local - Create a contact list on this computer				
1 <u>0</u> . Fenced user					
11. Notification setup	O Remote - Use an existing contact list that resides on another DB2 server				
12. Summary					
	● <u>D</u> o not set up your DB2 server to send notifications at this time If you do not set up your DB2 server to send notifications, the health alerts are still recorded in the administration notification log.				
	▲Back Next Einish Cancel Help				

# On the Summary screen, check all setting and if OK select **Finish** to begin installing DB2

4	DB2 Setup - DB2 Enterprise Server Edition	_ 0
1. Introduction	Start copying files	
<u>2</u> . Software License Agrei	The DB2 Setup wizard has enough information to start copying the program files. If you want to	) review or
<ol> <li>Installation type</li> </ol>	change any settings, click back. If you are satisfied with the settings, click Finish to begin copyr	ig nies.
4. Installation action	Current settings	
5. Installation directory		<b></b>
6. DAS user	Product to install: DB2 Enterprise Server Edition	
– 7. Instance setup	Installation type: Typical	
8. Partitioning options	Previously Installed Components:	
9. Instance-owning user	Selected Components:	=
10. Fenced user	Base client support	
11. Notification setup	Java support S01 procedures	
12. Summary	Base server support	
,	Connect support	
	IBM Software Development Kit (SDK) for Java(TM)	
	DB2 LDAP support	
	DB2 Instance Setup Wizard	
	Communication support - TCP/IP	
	Tivoli SA MP	
	Replication tools	
	Sample database source	
	First Steps	
	Languages:	
	English	
	All Products	•
	▲ <u>Back</u> <u>Finish</u> Cancel	Help

Installer with start	
🛃 Installing DB2 Enterprise Server Edition 💷 🗆 🗙	
Please wait while the DB2 Setup wizard installs DB2 Enterprise Server Edition and performs the required configuration. This may take several minutes.	
Task: Installing Java Runtime Support	
0% 100%	
Overall progress:	
0% 100%	

After some time the installation will complete...Select Finish to close the installer and you are returned to the cmd prompt.



## Check the version of DB2 installed as follows:

At the CMD prompt enter the following commands to verify the version of DB2 installed. **su - db2inst1 db2level** 

```
[root@dslvm1037 ese]# su - db2inst1
[db2inst1@dslvm1037 ~]$ db2leve1
DB210851 Instance "db2inst1" uses "64" bits and DB2 code release "SQL10010"
with level identifier "0201010E".
Informational tokens are "DB2 v10.1.0.0", "s120403", "LINUXAMD64101", and Fix
Pack "0".
Product is installed at "/opt/ibm/db2/V10.1".
[db2inst1@dslvm1037 ~]$
```

#### Apply the DB2 License:

Out of the box DB2 comes without a license installed. To check this run the cmd db2licm -I

```
[db2inst1@dubxpcvm624 ~]$ db2licm -l
Product name: "DB2 Enterprise Server Edition"
License type: "License not registered"
Expiry date: "License not registered"
Product identifier: "db2ese"
Version information: "10.1"
```

#### The License type is reported as "License not unregistered"

Copy the DB2 license to the DB2 system and install the license by running the cmd **db2licm** -a <database license file> e.g.

[db2inst1@dslvm1037 ~]\$ db2licm -a /opt/software/db2ese\_u.lic

LIC1402I License added successfully.

LIC1426I This product is now licensed for use as outlined in your License Agreement. USE OF THE PRODUCT CONSTITUTES ACCEPT ANCE OF THE TERMS OF THE IBM LICENSE AGREEMENT, LOCATED IN THE FOLLOWING DIRECTORY: "/opt/ibm/db2/V10.1/license/en\_US.iso885 91"

Verify that the license in installed correctly by re-running the cmd db2licm -I

[db2inst1@dubxpcvm624 ~]\$ db2licm	-1
Product name:	"DB2 Enterprise Server Edition"
License type:	"Authorized User Option"
Expiry date:	"Permanent"
Product identifier:	"db2ese"
Version information:	"10.1"
Enforcement policy:	"Soft Stop"
Number of licensed authorized user	rs: "25"
Features:	
DB2 Storage Optimization:	"Not licensed"
DB2 Advanced Access Control:	"Not licensed"
DB2 pureScale:	"Not licensed"

# Copy the DB2 JDBC jars files to the DM and to each of the Application Nodes

On the DM, Node1 and Node1 create the folder: **/opt/DB2-JDBC-jars** and copy the following DB2 files (from /opt/ibm/db2/V10.1/java) to this folder on the DM/Node1 & node2 system db2java.zip

abejaratelp
📄 db2jcc.jar
📄 db2jcc_license_cu.jar
📄 db2jcc4.jar

Note: These files must be in exactly the same folder on the DM and the Application servers/nodes

# 3.7 Install Tivoli Directory Integrator (TDI) V7.1 + Fixpack 5

#### **IBM Tivoli Directory Integrator 7.1 Install:**

The install of TDI is needed so the IBM Connections profiles database (PEOPLEDB) can be populated with LDAP information.

In this scenario the TDI will be installed on the same system as the DB2.

NOTE: The **TDI V7.1 Installer** (launchpad.sh) required the Firefox browser version **3.0.18** to run it's install. You can download and install FF 3.0.18 as follows:

download **firefox-3.0.18** (from: <u>https://ftp.mozilla.org/pub/mozilla.org/firefox/releases/3.0.18/linux-i686/en-US/</u>) into the folder: **/opt/software/firefox3**.

decompress firefox-3.0.18.tar.bz2 using the cmd: tar -jxvf firefox-3.0.18.tar.bz2 -- Firefox is then extracted into the folder: /opt/software/firefox3/firefox

set the following Environment Variable: export BROWSER=/opt/software/firefox3/firefox/firefox

## Installing TDI V7.1

Copy the TDI V7.1 installer image (CZ9MNML.tar) to your machine (/opt/software/TDI71) and decompress it. Start the TDI V7.1 launchpad by running: **./launchpad.sh**... and then follow these instructions.

## Select Install IBM Tivoli Directory Integrator and then Tivoli Directory Integrator 7.1 Installer.

Ti	voli Directory Integrator	Select a language English
•	Welcome Release Information Prerequisite Information Installation Scenarios Migration Information Install IBM Tivoli Directory Integrator Exit	<ul> <li>IBM Tivoli Directory Integrator 7.1 Installation</li> <li>Launch the product installation: <ul> <li>Installation documentation:</li> <li>Tivoli Directory Integrator 7.1 Installation Documentation</li> <li>Migrating to IBM Tivoli Directory Integrator 7.1</li> <li>Migrating to IBM Tivoli Directory Integrator 7.1 Supported Platforms</li> <li>Migration</li> <li>BM Tivoli Directory Integrator Password Synchronization Plug-ins 7.1 Documentation</li> <li>Migration</li> <li>Migrati</li></ul></li></ul>
	Ň.	

Select	English and click	ОК		
			Ī	
Tivoli. Directory	Integrator			
Licensed Materials - Property are registered trademarks of Foundation, Inc. Java and all J Other company, product, or ser	of IBM Corp. © Copyright IBM Co IBM Corporation in the United ava-based trademarks are trader vice names may be trademarks o	rp. and other(s), 2002, 2010. All States, other countries, or both marks of Sun Microsystems, Inc r service marks of others.	Rights Reserved, IBM, the IBM lo 1. Built on Eclipse is a trademar in the United States, other count	go and Tivoli k of Eclipse ries, or both.
			BUILT ON	
7.1			actions -	Java
	English	- OK		

# Select Next from the Introduction screen...

	mitoduction
<ul> <li>Introduction</li> <li>Previous Installations</li> <li>Software License Agreement</li> <li>Choose Install Folder</li> <li>Choose Install Set</li> <li>Solutions Directory</li> <li>TDI Server Ports</li> <li>TDI Server Service</li> <li>Integrated Solutions Console Directory</li> <li>Integrated Solutions Console Port Values</li> <li>AMC Service</li> <li>Pre-Installation Summary</li> </ul>	InstallAnywhere will guide you through the installation of IBM Tivoli Directory Integrator v7.1. It is strongly recommended that you quit all programs before continuing with this installation. Click the 'Next' button to proceed to the next screen. If you want to change something on a previous screen, click the 'Previous' button. You may cancel this installation at any time by clicking the 'Cancel' button.
<ul> <li>Pre-Installation Summary</li> <li>Installing</li> <li>Install Complete</li> </ul>	
Cancel	Previous Next

Introduction

#### select Next



#### Accept the terms of the license agreement and select Next



#### Keep the default install path... select Next



#### Select Typical as the Install Set; then select Next



Previous Installations	You have the option of selecting a Solutions Directory. A Solutions Directory is a static directory where the IBM Tivoli Directory Integrator Server and
/ Software License Agreement	Configuration Editor look for your solutions.
Choose Install Folder	
Choose Install Set	
Solutions Directory	
TDI Server Ports	O Use a subdirectory named TDI under my home directory
<ul> <li>TDI Server Service</li> </ul>	O Use Install Directory
Integrated Solutions Console Directory	O Select a directory to use
Integrated Solutions Console Port Values	/ Restare Default
AMC Service	<u>Estore Deradit</u> <u>Choose</u>
Pre-Installation Summary	Do not specify - use current working directory at startup time
Installing	
> Install Complete	

# Use the default ports and select $\ensuremath{\textbf{Next}}$

Server Port Values

✓ Introduction	Enter the port values to be used by IBM Tivoli	Directory Integra	ator v7.1
Previous Installations	Server.		
🗸 Software License Agreement			
🗸 Choose Install Folder			
🗸 Choose Install Set			
Solutions Directory			
TDI Server Ports	Server Port:		
DI Server Service	1099		
Integrated Solutions Console Directory	System Store Port:		
Port Values	REST API Port:		
> AMC Service	1098		
Pre-Installation Summary	System Queue Port:		
▷ Installing	41001		
Install Complete			
InstallAnywhere			
Cancel		<u>P</u> revious	Next

Do not select Register	as a	a sy	ystem	service,	then	click	Next

	AMC Service
<ul> <li>Introduction</li> <li>Previous Installations</li> <li>Software License Agreement</li> <li>Choose Install Folder</li> <li>Choose Install Set</li> <li>Solutions Directory</li> </ul>	You have the option of registering the Administration and Monitoring Console as a system service.
<ul> <li>TDI Server Ports</li> <li>TDI Server Service</li> <li>Integrated Solutions Console Directory</li> <li>Integrated Solutions Console Port Values</li> <li>AMC Service</li> <li>Pre-Installation Summary</li> <li>Installing</li> <li>Install Complete</li> </ul>	Register as a system service Service Name amc
InstallAnywhere Cancel	Previous <u>Next</u>

# Accept the default port values for the Integrated Solutions Console Port Values, then select Next Integrated Solutions Console Port Values

<ul> <li>Introduction</li> <li>Previous Installations</li> <li>Software License Agreement</li> <li>Choose Install Folder</li> <li>Choose Install Set</li> <li>Solutions Directory</li> </ul>	Enter the port values to be used by Integrated Solutions Console SE.
<ul> <li>TDI Server Ports</li> </ul>	HTTP port:
TDI Server Service	13100
<ul> <li>Integrated Solutions Console</li> <li>Directory</li> </ul>	HTTPS port:
Integrated Solutions Console Port Values	Action Manager API port:
> AMC Service	13104
Pre-Installation Summary	
▷ Installing	
Install Complete	
InstallAnywhere	
Cancel	Previous <u>N</u> ext

# Do not select Register as a system service, then click Next

	Re	gister Serve	er as Service
<ul> <li>Introduction</li> <li>Previous Installations</li> <li>Software License Agreement</li> <li>Choose Install Folder</li> <li>Choose Install Set</li> <li>Solutions Directory</li> </ul>	You have the option of registering IBM Tivoli D as a system service.	irectory Integrat	or v7.1 Server
<ul> <li>TDI Server Ports</li> <li>TDI Server Service</li> <li>Integrated Solutions Console Directory</li> <li>Integrated Solutions Console Port Values</li> <li>AMC Service</li> <li>Pre-Installation Summary</li> </ul>	Register as a system service Service Name: Itdl		
Install Complete			
Cancel		Previous	Next

#### Please wait a few moments for TDI to configure



# A Pre-Installation Summary screen will display... select **Install** to start the installation...



#### Installing begins...this will take a few minutes...



The Install Complete screen will next appear.	Deselect the option to Start Config	guration Editor; then select Done
---	-------------------------------------	-----------------------------------

	Install Complete
<ul> <li>Introduction</li> <li>Previous Installations</li> <li>Software License Agreement</li> <li>Choose Install Folder</li> <li>Choose Install Set</li> <li>Solutions Directory</li> <li>TDI Server Ports</li> <li>TDI Server Service</li> <li>Integrated Solutions Console Directory</li> </ul>	Congratulations! IBM Tivoli Directory Integrator v7.1 has been successfully installed. Press 'Done' to quit the installer.
<ul> <li>Port Values</li> <li>AMC Service</li> <li>Pre-Installation Summary</li> <li>Installing</li> <li>Install Complete</li> </ul>	
	Start Configuration Editor
InstallAnywhere	Previous Done

You can now **Exit** the installer... TDI 7.1 is now installed, but now we need to install FixPack 5.

#### IBM Tivoli Directory Integrator 7.1 FixPack 5 Install

Copy TDI V7.1 Fixpack 5 (7.1.0-TIV-TDI-FP0005.zip) to the folder /opt/software/TDI7.1-FP5 and unZip it.

Make sure TDI is not running before applying the fixpack.

In the **7.1.0-TIV-TDI-FP0005** folder there is a file called **applyUpdates.sh**; copy this file to **/opt/IBM/TDI/V7.1/bin/** replacing the version that is already there.

Goto /opt/IBM/TDI/V7.1/bin and run the following commands: chmod 755 applyUpdates.sh

## Note: Run the following commands from a VNC session

# ./applyUpdates.sh -update /opt/software/TDI7.1-FP5/7.1.0-TIV-TDI-FP0005/TDI-7.1-FP0005.zip

#### The FixPack will then install.

[root@dubxpcvm624 bin]# ./applyUpdates.sh -update /opt/software/TDI7.1-FP5/7.1.0-TIV-TDI-FP0005/TDI-7.1-FP0005.zip CTGDK00231 Applying fix 'TDI-7.1-FP0005' using backup directory '/opt/IBM/TDI/V7.1/maintenance/BACKUP/TDI-7.1-FP0005'. CTGDK00271 Updating SERVER. CTGDK00271 Updating CE. CTGDK00271 Updating EXAMPLES.

To check the install was OK run ./applyUpdates.sh -queryreg it should report that FP5 is installed...

[root@dubxpcvm624 bin]#
## 4.1 Enable Security on the Deployment Manager

Next we need to add the LDAP repository to your Configuration...

Login to your WAS admin console -> <u>https://dm&ihs.spnego.company.com:9043/ibm/console</u> (use wasadmin user and password).

# Enable the following General Settings:

Select: Security -> Global security.

Ensure the Enable administrative security and Enable application security are selected.

Under User account repository ensure Available realm definitions is set to Federated repositories

Select Apply and Save.

Security Configuration Wizard Security Configuration Report	
dministrative security	Authentication
Enable administrative security Administrative user roles	Authentication mechanisms and expiration
Administrative group roles	ITPA
Administrative authentication	Kerberos and LTPA Kerberos configuration
Application security	Authentication cache settings
Enable application security	<ul> <li>Web and SIP security</li> <li>RMI/IIOP security</li> </ul>
ava 2 security Use Java 2 security to restrict application access to local resources Warn if applications are granted custom permissions Restrict access to resource authentication data User account repository	<ul> <li>Java Authentication and Authorization Service</li> <li>Enable Java Authentication SPI (JASPI) <u>Providers</u>         Use realm-qualified user names         </li> </ul>
Realm name	
defaultWIMFileBasedRealm	Security domains
Current realm definition	External autonization providers
Federated repositories	Custom properties

#### Select: Security -> Global security -> Web and SIP Security -> General Settings.

Ensure the **Use available authentication data when an unprotected URI is accessed** check box is ticked. Select Apply and Save.

Global security
<u>Global security</u> > Web security - General settings
Specifies the settings for web authentication.
General Properties
web authentication behavior
Authenticate only when the URI is protected
Use available authentication data when an unprotected URI is accessed
O Authenticate when any URI is accessed
Default to basic authentication when certificate authentication for the HTTPS client fails
Apply OK Reset Cancel

#### Select: Security -> Global security -> Web and SIP Security -> Single sign-on (SSO).

Enter the Domain name - you must prefix it with the dot/period (.) e.g. ".spnego.company.com"

Ensure the **Interoperability mode** is select and enter the domain name.

Ensure the LTPA V1 and V2 Cookie names are spelt and cased correctly as shown ie use "LtpaToken" and "LtpaToken2"

## Ensure Web inbound security attribute propagation is checked

Ensure **Set security cookies to HTTPOnly to help prevent cross-site scripting attacks** is checked Select Apply and Save.

alobal Security			
<u>Global security</u> > Single sign-on (SSO) Specifies the configuration values for single sign-on. General Properties			
Enabled			
Requires SSL			
Domain name .spnego.company.com			
✓ Interoperability mode LTPA V1 cookie name LtpaToken1			
LTPA V2 cookie name LtpaToken2			
Web inbound security attribute propagation			
Set security cookies to HTTPOnly to help prevent cross-site scripting attacks			
Apply OK Reset Cancel			

# Select: Security -> Global security -> Configure... opposite Federated repositories Select Add Base entry to Realm...

bal security		
Global security > Federated repositories By federating repositories, identities stored in consist of identities in the file-based repository built-in repository and one or more external re ioneral Perspective	nultiple repositories can be managed i that is built into the system, in one or positories.	n a single, virtual realm. The realm can more external repositories, or in both th
Realm name		
defaultWIMFileBasedRealm		
Primary administrative user name		
wasadmin		
Server user identity		
O Server identity that is stored in the repo Server user ID or administrative user or Password	sitory a Version 6.0.x node	
<ul> <li>Ignore case for authorization</li> <li>Allow operations if some of the repositorie</li> <li>Repositories in the realm:</li> </ul>	s are down	
Add Base entry to Realm Use built-i	n repository Remove	
Select Base Entry	Repository Identifier	Repository Type
You can administer the following resources:		
o=defaultWIMFileBasedRealm	InternalFileRepository	File
Total 1		

## Then select Add Repository... and then LDAP repository

# <u>Global security</u> > <u>Federated repositories</u> > Repository reference

Global security

Specifies a set of identity entries in a repository that are referenced by a base entry into the direc necessary to define an additional distinguished name that uniquely identifies this set of entries w General Properties

* Repository
none defined 💌 Add Repository 🔻
LDAP repository
* Distinguished nameCustom repositoryat uniquely identifies this set of entries in the realm
File repository
Distinguished name of a base entry in this repository
Apply OK Reset Cancel

Giodal Security			
Global security > Federated repositories > Repository reference > New Specifies the configuration for secure access to a Lightweight Directory Access Protocol (LDAP) repository with optional failover servers.			
General Properties * Repository identifier			
msad2008 Repository adapter class name com.ibm.vs.vim.adapter.idap.LdapAdapter			
LDAP server	Security		
* Directory type Microsoft Windows Active Directory	Bind distinguished name CN=bind,OU=branch,DC=spnego,DC=company,DC=com		
Primary host name Port msad2008.spnego.company.com	Bind password		
Failover server used when primary is not available: Delete	Login properties uid LDAP attribute for Kerberos principal name		
Select Failover Host Name Port	Cartificata manning		
Add	EXACT_DN		
Support referrals to other LDAP servers ignore			
Support for repository change tracking	<ul> <li>Require SSL communications</li> <li>Centrally managed</li> </ul>		
Custom properties           New         Delete	Manage endpoint security configurations     Use specific SSL alias		
Select Name Value	CellDefaultSSLSettings		

Enter the Repository information as shown below; then  $\mathbf{OK}\textbf{,}$  then Save

Enter the base entry... select **OK**, then **Save** 

Global security ? -
<u>Global security</u> > <u>Federated repositories</u> > Repository reference
Specifies a set of identity entries in a repository that are referenced by a base entry into the directory information tree. If multiple repositories are included in the same realm, it might be necessary to define an additional distinguished name that uniquely identifies this set of entries within the realm.
General Properties
<ul> <li>* Repository         msad2008 Add Repository •     </li> <li>* Distinguished name of a base entry that uniquely identifies this set of entries in the realm         OU=branch,DC=spnego,DC=company,D     </li> </ul>
Distinguished name of a base entry in this repository
OU=branch,DC=spnego,DC=company,D
Apply OK Reset Cancel

# Now, restart the Deployment Manager and the Node Agents.

#### Add an LDAP user as an administrator:

Login to your admin console -> <u>https://dm&ihs.spnego.company.com:9043/ibm/console</u>

# Select Users and Groups -> Administrative user roles; select Add...

dministrative user roles ? =			
Admin	istrative user roles		
Use this page to add, update or to remove administrative roles to groups. Assigning administrative roles to groups enables them to administer application servers through the administrative console or through wsadmin scripting. The administrative authorizer run time must be notified when groups are added to or removed from an administrative user group. Click Refresh all to notify the administrative authorizer after the changes have been saved and synchronized.			
Logout Add Refresh all			
Select	User 🛟	Role(s) 👶	Login Status 🖒
	wasadmin	Primary administrative user name	Active
Total	1		

select Administrator under Role(s); search for the user: AdminFromLDAP and add that user to Mapped to role. Select OK; then Save.

runninistrative user roles			
Administrative user roles > User Use this page to add, update or to remove administrative roles to users. Assigning administrative roles to users enables them to administer application servers through the administrative console or through wsadmin scripting.			
* Role(s) Administrator Auditor Configurator			
Search and Select Users			
Decide how many results to display, enter a search string (use * for wildcard), and click Search. Select users from the Available list and add them to the Mapped to role list. Users which have already been mapped to a role will not be returned in the search results.  Search string          Search string         AdminFromLDAP       Search         Maximum results to display       20			
Available Mapped to role			
Select All Deselect All Deselect All			

## Administrative user roles

#### Administrative user roles

Use this page to add, update or to remove administrative roles to groups. Assigning administrative n to administer application servers through the administrative console or through wsadmin scripting. Th run time must be notified when groups are added to or removed from an administrative user group, administrative authorizer after the changes have been saved and synchronized.

	Log	Logout Add Remove Refresh all		
	Select	User 🛟	Role(s) 🗘	
		AdminFromUser	Administrator	
		wasadmin	Primary administrative user name	
Total 2		2		

Verification check

Logout of the WAS Console

Now relogin as the user AdminFromLDAP. If all went well then you should log in successfully.

#### 4.2 Federate Application Server into Deployment Manager:

Next we federate the AppServers (Nodes) into the Deployment Manager. Checks:

i) Ensure the clocks are in synch between your DM and AppServer. Run **ntpdate clock.redhat.com** to on your DM and AppServer.
 ii) Make sure the DM is started and the AppServers are stopped.

Steps: On each of your Application Servers (Nodes) execute the following:

#### cd /opt/IBM/WebSphere/AppServer/bin ./addNode.sh dubxpcvm603.mul.ie.ibm.com 8879 -user wasadmin -password wasadmin

#### You should see the following

[root@dubxp	cvm766 bin]‡ ./addNode.sh dubxpcvm766.mul.ie.ibm.com 8879 -user wasadmin -password wasadmin -localusername wa
sadmin -loca	alpassword wasadmin
ADMU0116I: 3	Tool information is being logged in file
	/opt/IBM/WebSphere/AppServer/profiles/AppSrv01/logs/addNode.log
ADMU0128I:	Starting tool with the AppSrv01 profile
CWPKI0308I:	Adding signer alias "CN=dubxpcvm766.mul.ie.ibm.com, " to local
	keystore "ClientDefaultTrustStore" with the following SHA digest:
	8B:40:B0:4D:31:D1:7E:22:1A:93:7E:4C:BD:74:59:00:9E:25:75:48
CWPKI0309I:	All signers from remote keystore already exist in local keystore.
ADMU00011: 1	Begin federation of node dubxpcvm766Node01 with Deployment Manager
	at dubxpcvm/66.mul.le.lbm.com:8879.
ADMU00091:	Successfully connected to Deployment Manager Server:
	dubxpcvm/66.mul.ie.ibm.com:88/9
ADMU05051:	Servers found in configuration:
ADMU05061:	Server name: serveri
ADMU20101:	scoping all server processes for node dubxpcvm/bewodeul
ADMU05121: 3	Server serveri cannot be reached. It appears to be stopped.
ADM000241: 1	Deleting the old backup directory.
ADMU00151: 1	backing up the original cell repository.
ADMU00121: 0	Iteating wold Append Configuration for node: dubxpCvm/conolect
ADHOUUIHI. I	Adding hold addreptown forward of configuration to ceri.
ADMII0016T	Surphynitotocildi
ADMU0018T · 1	Launching Node Laent process for node: dubynoum/76Node01
ADMU0020T: 1	Reading configuration for Node Agent process: nodeagent
ADMU00221: 1	Node Agent launched. Waiting for initialization status.
ADMU00301: 1	Node Agent initialization completed successfully. Process id is:
	29727
ADMU03001: 3	The node dubxpcvm766Node01 was successfully added to the
	dubxpcvm766Cell01 cell.
ADMU0306I: 1	Note:
ADMU03021: 1	Any cell-level documents from the standalone dubxpcvm766Cell01
	configuration have not been migrated to the new cell.
ADMU03071:	You might want to:
ADM003031: 0	update the configuration on the dubxpcvm/66Cell01 Deployment Manager
	with values from the old cell-level documents.
	Note:
ADMI03041.	Note. Because _includeanne was not spacified annlications installed on
ADIOUSUAL:	the standard ne not were not installed on the new cell
ADMU03071	You might want to:
ADMU03051:	Install applications onto the dubxpcym766Cell01 cell using wsadmin
	SAdminApp or the Administrative Console.
ADMU0003I: 1	Node dubxpcvm766Node01 has been successfully federated.
[root@dubxp	cvm766 bin]#

Verify the federation has been successful by:

Logging into your DM via: https://dm&ihs.spnego.company.com:9043/ibm/console

Then goto Servers / Server Types / WebSphere Application Servers you should see something like this...



Repeat this for each node in your deployment.

#### 4.3 Configure HTTP server to accept SSL connections

#### 1. Create Self-Signed SSL Certs for HTTP Server:

Connections supports login only over SSL, so we need to configure the HTTP server to accept SSL connections.

Startup ikeyman. This should be located under the HTTPServer/bin folder. 📕 IBM Key Management \_ 🗆 X Key Database <u>F</u>ile <u>C</u>reate <u>V</u>iew <u>H</u>elp 🗋 🎽 🛛 🐓 🔍 🗖 Key database information DB-Type: File Name: Token Label: Key database content Personal Certificates Ŧ Receive... <u>D</u>elete Vie<u>w</u>/Edit.. lm<u>p</u>ort... Recre<u>a</u>te Request... Rena<u>m</u>e New Self-Signed... Extract Certificate... To start, please select the Key Database File menu to work with a key database...

Select Key Database File -> New. Give the key a name, I usually call it the name of the server running the HTTP Server and I usually store it under the HTTP Server Plugin definition/..

🦉 New		×
<u>K</u> ey database type	CMS	
<u>F</u> ile Name:	dubxpcvm766.kdb	vse
Location:	/opt/IBM/WebSphere/Plugins/config/dubxpcvm766	
	<u>O</u> K <u>C</u> ancel	

On selecting OK you will be asked to enter a password and make sure to select the Stash password to a file check box.

🚇 Password Prompt	×
Password:	
Co <u>n</u> firm Password:	
■ Expiration time 60 Days ✓ Stash password to a file	
<u>O</u> K <u>R</u> eset <u>C</u> ancel	

You are returned to the ikeyman panel with the dubxpcvm766.kdb opened. Now select Create and New Self-Signed Certificate...

	IBM Key Management - [/opt/IBM/WebSpher Plugins/config/dubxpcvm766			
	Key Database <u>F</u> ile	<u>Create</u> <u>View</u> <u>H</u> elp		
	- r 🚅 🗖	New Ce <u>r</u> tificate Request Ctrl-R		
		New Self-Signed Certificate Ctrl-L		
		rey database information		
	DR-Type c	KA C		
the <u>I</u>	Key Label a nam	e, and set the field <b>Common Name</b> to the IHS hostname.		
	🧕 Create New Se	lf-Signed Certificate		
	Please provide the f	ollowing:		
	Key Label	SelfSignedCertificate		

<u>K</u> ey Label	SelfSignedCertificate
Version	X509 V3 👻
K <u>e</u> y Size	1024 💌
Signature Algorithm	SHA1WithRSA 💌
Co <u>m</u> mon Name (opti	ona) dubxpcvm766.mul.ie.ibm.com
Or <u>q</u> anization (opti	onal)
Org <u>a</u> nizational Unit (opti	ona)
Locality (opti	ona)
S <u>t</u> ate/Province (opti	onal)
<u>Z</u> ipcode (opti	onal)
Co <u>u</u> ntry or region (opti	ona) 👻
Val <u>i</u> dity Period	365 Days
Subject Alternative Name	\$
Email A <u>d</u> dress (opti	onal)
I <u>P</u> Address (opti	onal)
D <u>N</u> S Name (opti	ona)
<u>0</u> K	<u>R</u> eset <u>C</u> ancel

# Once you select **OK** you are returned to ikeyman

Give

📕 IBM Key Ma	nagement - [/opt/IBM/WebSphere/Plugins/config/dubxpcvm766/dubxpcvm766.kdb]	]	_ 🗆 🗙
Key Database <u>F</u> i	le <u>C</u> reate <u>V</u> iew <u>H</u> elp		
1			
	Key database information		
DB-Type:	CMS		
File Name:	/opt/IBM/WebSphere/Plugins/config/dubxpcvm766/dubxpcvm766.kdb		
Token Label:			
	Key database content		
Personal Certif	icates	•	Rece <u>i</u> ve
* SelfSignedCe	tificate		<u>D</u> elete
			Vie <u>w</u> /Edit
			Export/Import
			Recre <u>a</u> te Request
			Rena <u>m</u> e
			New Self-Signed
			Extract Certificate
The requested a	ction has successfully completed!		

Thats the certificate configured. We now need to configure the HTTP Server to use this certificate.

#### 2. Configure httpd.conf to enable SSL:

In httpd.conf file which is under /opt/IBM/HTTPServer/conf, add the following lines to the end of file before the LoadModule was\_ap22\_module and WebSpherePluginConfig sections...

LoadModule ibm\_ssl\_module modules/mod\_ibm\_ssl.so <IfModule mod\_ibm\_ssl.c> Listen 0.0.0.0:443 ServerName **dm&ihs.mul.ie.ibm.com** <VirtualHost \*:443> SSLEnable

AllowEncodedSlashes On

</VirtualHost> </IfModule> SSLDisable

Keyfile "**/opt/ihs/key.kdb**" SSLStashFile "**/opt/ihs/key.sth**"

#### \_3. Verify IHS is SSL enabled

Restart/start IHS and the IHS administrator as follows: from the folder /opt/IBM/HTTPServer/bin enter:

/adminctl -k restart | start | stop

./apachectl -k restart | start | stop

Enter the IHS server URL (using the https protocol) i.e. <u>https://dm&ihs.spnego.company.com</u>, in to your browser's address box and you get:





# 5. Create Connections DB2 databases using the dbWizard

\_\_1. Log in, using a VNC client, to your database server as the **root** user or system administrator.

2. Grant display authority to all users by running the following commands under the root user or system administrator: xhost + // Grant display authority to other users echo \$DISPLAY // Echo the value of DISPLAY under the root user

\_\_\_\_3. Switch to the db2 instance admin (in this case the db2 admin is **db2inst1**) su - db2inst1

\_\_\_4. export the DISPLAY; enter: export DISPLAY=:1.0

\_\_\_\_5. Start the Database Instance, by entering: **db2start** 

\_\_\_\_6. As root, download **IBM\_Connections\_4.5\_wizards\_lin\_aix.tar** to your DB2 system and untar it (I downloaded this file into a folder called **/opt/software/ic45**)

Note: The dbWizard must be run using the DB2 instance user (in this scenario this user is db2inst1)

\_\_\_\_7. Assign the DB2 instance user as the owner for the file **IBM\_Connections\_4.5\_wizards\_lin\_aix.tar** & it 's respective folders.

# cd /opt/software

## chown db2inst1:db2iadm1 -R IC45/

cd /opt/software/ic45 and enter 'ls -la' and you should see the file IBM\_Connections\_4.5\_wizards\_lin\_aix.tar has the owner db2inst1:db2iadm1 i.e:

-rw-r--r-- 1 db2inst1 db2iadm1 580044800 Apr 22 10:19 IBM\_Connections\_4.5\_wizards\_lin\_aix.tar

\_\_\_8. As db2inst1, run **./dbWizard.sh** , from the folder /opt/software/ic45/Wizards, and follow these screens:

Database wizard for IBM Connections 4.5	_ = ×
Database wizard for IBM Connections 4.5	
This wizard can create, delete or update the IBM Connections databases.	TRM.
To access information about this product, see the IBM Support Web site:	0
http://www-10.lotus.com/ldd/lcwiki.nsf/xpDocViewer.xsp?lookupName=IBM+Connections+4.5 +documentation#action=openDocument&content=catcontent&ct=prodDoc	
To continue, click Next.	
Licensed Materials - Property of IBM. License L-CMAS-8ZYNM6 L-JRCI-89W3MD	
©Copyright IBM Corporation and its licensors 2007, 2013. All Rights Reserved. IBM, the IBM logo, ibm.com and Lotus are trademarks of IBM Corporation in the United States, other countries, or both. Other company, product or service names may be trademarks or service marks of others. A current list of IBM trademarks is available on the Web at www.ibm.com/legal/ copytrade.shtml. U.S. Government Users Restricted Rights: Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp. Please see the About page for further information.	
Back Next	<u>C</u> ancel

Select <b>Create</b> and the	en Next		
🙆 Database	wizard for IBM Conn	ections 4.5	_ o x
Database task selection			
Select the database task:			
Create			IBM.
⊖ Delete			
<ul> <li>Update operation only for IBM Connect</li> </ul>	ions database 4.0 to 4.5		
1			
	Back	Next	Cancel
	Dack		

Select the path for your DB2 database installation location and the database instance name... select **Next** to continue...

	WIZAIG IOI IBM COIME	sciions 4.5		^
Database selection				
Select the database type, installation locat	ion, and database instan	ce.		
DB2 Universal Database (TM)				IBM.
<ul> <li>Oracle Enterprise Edition</li> </ul>				
Database installation location:				
/opt/ibm/db2/V10.1			Browse	
Database instance:				
db2inst1				
	Pack	Novt		Cancol
	Dack	<u>IN</u> EXL		

Ensure all databases are selected	ed and then <b>Next</b> to cont	inue	
🙆 Database wi	izard for IBM Connections 4.5		_ = ×
Applications selection			
Select the applications for which you want to applications that already have databases. Note: The Search and News repository applic database.	o create databases. You cannot select cations are contained in the Home pa	t 🖻	IBM.
<ul> <li>Activities</li> <li>Activities</li> <li>Blogs</li> <li>Bookmarks</li> <li>Cognos</li> <li>Communities</li> <li>Files</li> <li>Forums</li> <li>Home page</li> <li>IBM Connections Content Manager</li> <li>Metrics</li> </ul>	I will need Cognos to use metrics.		
	<u>B</u> ack Nex	t 📃	<u>C</u> ancel

The summary screen is displayed... review the setting and select  $\ensuremath{\textbf{Create}}$ 

🖄 Database	wizard for IBM Connections 4.5	 _ = ×
Pre-configuration task summary		
IBM Connections is ready to create databased	ses for the following applications.	TDM
Action: Create IBM Connections database Database type: DB2 Universal Database (T Database install location: /opt/ibm/db2/V1 Database instance: db2inst1 The selected applications are: Activities, B Forums, Home page, IBM Connections Con <b>Activities</b> Database name: OPNACT Database user: LCUSER Sql scripts to run: createDb.sql, appGrants. <b>Blogs</b> Database user: LCUSER Sql scripts to run: createDb.sql, appGrants. <b>Bookmarks</b>	rM) .0.1 ilogs, Bookmarks, Cognos, Communities, Files, itent Manager, Metrics, Mobile, Profiles, Wikis .sql	
$\checkmark$ Show the detailed database commands.		
	<u>Back</u> <u>C</u> reate	<u>C</u> ancel

Select **Execute** to begin creating the databases... this will take some time to complete.

Database wizard for IBM Connections 4.5	×
Database creation detailed command	
The following commands will be executed, click "Execute" to run them.	
Activities 1. /opt/ibm/db2/V10.1/bin/db2 -td@ -vf connections.sql/activities/db2/createDb.sql 2. /opt/ibm/db2/V10.1/bin/db2 -td@ -vf connections.sql/activities/db2/appGrants.sql	
Blogs 1. /opt/ibm/db2/V10.1/bin/db2 -td@ -vf connections.sql/blogs/db2/createDb.sql 2. /opt/ibm/db2/V10.1/bin/db2 -td@ -vf connections.sql/blogs/db2/appGrants.sql	
Bookmarks 1. /opt/ibm/db2/V10.1/bin/db2 -td@ -vf connections.sql/dogear/db2/createDb.sql 2. /opt/ibm/db2/V10.1/bin/db2 -td@ -vf connections.sql/dogear/db2/appGrants.sql	
Cognos 1. /opt/ibm/db2/V10.1/bin/db2 -td@ -vf connections.sql/cognos/db2/createDb.sql 2. /opt/ibm/db2/V10.1/bin/db2 -td@ -vf connections.sql/cognos/db2/appGrants.sql	
Communities 1. /opt/ibm/db2/V10.1/bin/db2 -td@ -vf connections.sql/communities/db2/createDb.sql 2. /ont/ibm/db2/V10.1/bin/db2 -td@ -vf connections sql/communities/db2/appGrants sql Save As	V
<u>Back</u> Execute	<u>C</u> ancel

At this point the databases are being created and you will the screen updating with info like this:

Database wizard for IBM Connections 4.5	_
Database creation task	
Creating databases	<del>, .</del>
Logging to /home/db2inst1/lcWizard/log/dbWizard/ dbConfig_20130422_132028_activities_createDb.log.	1571.

After some time (10+ minutes) the following screen appears:

Check for each database that the Result: message is The database creation was successful.

### Select **Finish** to end the install.

Database wizard for IBM Connections 4.5	× `
Post configuration task summary	
The database creation task completed. The following configuration was used:	tem
Action: Create IBM Connections database Database type: DB2 Universal Database (TM) Database install location: /opt/ibm/db2/V10.1 Database instance: db2inst1 The selected applications are: Activities, Blogs, Bookmarks, Cognos, Communities, Files, Forums, Home page, IBM Connections Content Manager, Metrics, Mobile, Profiles, Wikis	
Activities Database name: OPNACT Database user: LCUSER Sql scripts ran: createDb.sql, appGrants.sql Result: The database creation was successful.	
Blogs Database name: BLOGS Database user: LCUSER Sql scripts ran: createDb.sql, appGrants.sql Result: The database creation was successful.	v
Back <u>Einish</u>	Cancel

Verify that all databases are created successfully by doing the following:

In the final screen (above) check for each database that the "**Result:**" message is "**The database creation was successful.**"

Check the log files for any issues.

As user db2inst1 entering the following DB2 command and verify all Connections' databases are listed:

#### db2 list database directory

Now, as user db2inst1, issue the following DB2 command to set the default for the number of concurrently open DB2 databases to 18:

#### db2 update dbm cfg using numdb 18

## 6. Populate the Connections profiles (PEOPLEDB) database with LDAP User Information

On the DB2 server, as root, go to the /Wizard folder and enter **./populationWizard.sh** The first screen is the Welcome screen; select **Next** to continue

Profiles population wizard for IBM Connections 4.5	_ = ×
Welcome to Profiles population wizard for IBM Connections 4.5	
This wizard populates the Profiles database for IBM Connections with users from your LDAP directory.	IIV.
To access information about this product, click the Launch Information Center.	
click Next to continue.	
Licensed Materials - Property of IBM. License L-CMAS-8ZYNM6 ©Copyright IBM Corporation and its licensors 2007, 2013. All Rights Reserved. IBM, the IBM logo, ibm.com and Lotus are trademarks of IBM Corporation in the United States, other countries, or both. Other company, product or service names may be trademarks or service marks of others. A current list of IBM trademarks is available on the Web at www.ibm.com/legal/ copytrade.shtml. U.S. Government Users Restricted Rights: Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp. Please see the About page for further information.	
Back	ancel <u>N</u> ext

#### Select DB2 Univeral Database and click Next.....

Profiles population wizard for IBM Con	nections 4.5		×
Profiles database type			
Select the Profiles database type.			TEM.
<ul> <li>DB2 Universal Database(TM)</li> </ul>			
<ul> <li>O Oracle Enterprise Edition</li> </ul>			
O SQL Server Enterprise Edition			
	<u>B</u> ack	<u>C</u> ancel	Next

Next enter the database information for the profiles (PEOPLEDB) database; select **Next** to continue..

Profiles population wizard for IBM Connections 4.5	_ = ×
Profiles database properties	
Enter the Profiles database properties. The wizard uses this information to access the Profiles database.	
Host name:	
db2.spnego.company.com	
Port:	
50000	
Database name:	
PEOPLEDB	
JDBC driver library path:	
/opt/ibm/db2/V10.1/java Browse	•
User ID (Account used to write to database):	_
db2inst1	
Password:	
•••••	
	_
<u>B</u> ack <u>C</u> ano	cel <u>N</u> ext

Enter the LDAP server name and port number and then select Next to continue...

Profiles population wizard for IBM Connections 4.5	×
LDAP server connection	
Specify the LDAP host name and port to enable the Profiles population wizard to connect to the LDAP server.	IBM.
LDAP server name:	
msad2008.spnego.company.com	
LDAP server port:	
389	
Select to use SSL communication for secured access	
Use SSL communication	
<u>B</u> ack <u>C</u> ancel	Next

Enter the bind user details and password **CN=bind,OU=branch,DC=spnego,DC=company,DC=com** 

Profiles population wizard for IBM Con	nnections 4.5		_ = ×
LDAP authentication properties			
Enter the bind distinguished name and password to to allow the wizard directory.	to access the LDA	P	IIV.
Bind distinguished name (DN):			
CN=bind,OU=branch,DC=spnego,DC=company,DC=com			
Bind password:			
	Back	<u>C</u> ancel	Next

Enter the search base and search filter... select **Next** to continue...

Profiles population wizard for IBM Connections 4.5		_
Base distinguished name and filter for searches		
Enter the base distinguished name and filter for this wizard to begin searching for users in the LDAP directory tree.		IIV.
LDAP user search base:		
DC=spnego,DC=company,DC=com	~	
LDAP user search filter:		
(&(uid=*)(objectclass=inetOrgPerson))		
<u>B</u> ack	ancel	<u>N</u> ext
TEEECON		

Use the default database mappings select <b>Next</b> to con	tinue
---	-------

٢	Profiles population wizard	for IBM Connections 4.5	×	
Profiles database mapping				
Select an LDAP attribute or a JavaScript function for each field in the Profiles database. You can sort the columns by selecting the column header, or select each row to add, remove, or edit the LDAP attribute or JavaScript function.				
Database Fields	LDAP Attributes or JS Functions	Description		
alternateLastname		Alternate last name		
bldgid		Building	=	
blogUrl		Blog link		
calendarUrl		Calendar link		
countryCode	c	Country code		
courtesyTitle		Courtesy title		
deptNumber		Department number		
description	description	About me		
displayName	cn	Name		
distinguishedName	\$dn	LDAP distinguished name		
email	mail	Office email		
employeeNumber	employeenumber	Employee number	~	
<u>Back</u> <u>Cancel</u> <u>Next</u>				

# Do not select any of the **Optional database tasks**

Select 'Yes' for Do you want to run the task that marks the profiles of each manager? select Next to continue...

Profiles population wizard for IBM Connectio	ns 4.5	_ = ×
Optional database tasks		
Countries		
/opt/software/IC45/Wizards/TDIPopulation/linux/TDI/isocc.csv	Browse	IBM.
Departments		
/opt/software/IC45/Wizards/TDIPopulation/linux/TDI/deptinfo.csv	Browse	
Organizations		
/opt/software/IC45/Wizards/TDIPopulation/linux/TDI/orginfo.csv	Browse	
Employee types		
/opt/software/IC45/Wizards/TDIPopulation/linux/TDI/emptype.csv	Browse =	
Work locations		
/opt/software/IC45/Wizards/TDIPopulation/linux/TDI/workloc.csv	Browse	
Do you want to run the task that marks the profiles of each manager? • Yes • No		
	10	
Bi	ack <u>C</u> ancel	Next

Review the Summary page to ensure that the information you entered in the previous panels is correct.

To make changes, click Back to return to the relevant page and edit the information. Otherwise, click **Configure** to begin populating the database.

Profiles population wizard for IBM Connections 4.5	_ O X
Profiles population configuration summary	
Profile population wizard is ready to run the population with the following configuration. Configuration details: Database host name: db2.spnego.company.com Database name: PEOPLEDB Database port: 50000 JDBC driver library path: /opt/ibm/db2/V10.1/java Database user ID: db2inst1 Database type: DB2 Universal Database(TM) LDAP host name: msad2008.spnego.company.coml LDAP host name: msad2008.spnego.company.coml LDAP server port: 389 Bind distinguished name: CN=bind,OU=branch,DC=spnego,DC=company,DC=com LDAP user search filter: (&(uid=*)(objectclass=inetOrgPerson)) Tivoli Directory Integrator installation location: /opt/IBM/TDI/V7.1 LISE SSL communication: No	
Back	<u>Cancel</u> <u>C</u> onfigure

The next screen indicating that Execution of the Population Task is in progress... the population process could take over one hour. Installing IC45 does not require the profiles (PEOPLEDB) database to be populated so I will turn to installing IC45 now and return to this in one or two hours time to complete the final steps.

	Profiles population wizard for IBM Connections 4.5	_ O X
	Executing population task	
,	This task may take several minutes or hours, depending on the size of your LDAP directory.	
	Populating	
	Logging into /root/lcWizard/log/tdi/tdi_20130422_133957.log	
i		
	Open Log	
	Qpen Log	

Once the population wizard has completed you should get the screen below.

WARNING: There are over 400k users in my LDAP branch but the message below says that it has only successfully populated the first 20k user... this is a limitation of the dbPopulation Wizard; I will need to populate the remaining users manually (see below).

Select Finish to exit the wizard.

Profiles population wizard for IBM Connections 4.5		_ = ×
Population completion summary		
The profiles wizard execution is finished.		IBM.
The execution result is as following: populate Idap data to EMPLOYEE table The Tivoli Directory Integrator population output: 2013-04-23 11:46:18,080 INFO [com.ibm.di.log.FileRollerAppender.1bfb0d1a-5bbf-4720- bf80-17f948ca3933] - [LFRN00271: After operation, success records is 20000, duplicate] records 0, failure records is 0, and last successful entry is CN=Aamir Aamir_012_202,OU=SharedLDAP,OU=Lotus,OU=Software Group,DC=litbg02,DC=swg,DC=usma,DC=ibm,DC=com. Mark manager profiles Successful! For additional information, refer to log file /root/lcWizard/log/tdi/tdi_20130422_133957.log and /opt/software/IC45/Wizards/TDIPopulation/linux/TDI/logs/PopulateDBFromDNFile.log View log The following configuration has been run:		
Back	<u>C</u> ancel	<u>F</u> inish

# How to complete the population of the profiles database (PEOPLEDB) with the full 400K users MANUALLY NOTE! The ./populationWizard.sh wizard stopped populating after the first 20k users. To fix this issue I need to manually populate the remaining 400k users using the following steps:

- 1. From a CMD line change to the folder: /opt/software/IC45/Wizards/TDIPopulation/linux/TDI
- 2. Edit the file profiles\_tdi.properties and change the value for source\_ldap\_page\_size=1000 then save the file.
- 2. Run the following command: ./collect\_dns.sh Note: this took a few hours to complete.
- 3. Make a backup copy of this newly created file collect.dns i.e. cp collect.dns backup-collect.dns
- 4. Split the file collect.dns into chunks of 20k users by running: split -I 20000 collect.dns collect-split

enter **Is -Ia collect-split\*** and you can see the list of files created each with 20k users; in my case the following files were created:

collect-splitaa collect-splitab collect-splitad collect-splitae collect-splitaf collect-splitag collect-splitai collect-splitaj collect-splitak collect-splital collect-splitam collect-splitan collect-splitao collect-splitap collect-splitar collect-splitas collect-splitat

5. Populated the profiles database by running the following command

for i in collect-splita collect collect-splita collect-splita collect-splita collect-splita coll

Note: this step took over 24hrs to run to completion and ended with the profiles db populated with all 400+K users.

# 7. Installation of IBM Connections 4.5 (IC45) :

IC45 is installed over WAS 8.0.0.5.

The install of IC45 is done on the Deployment Manager (DM) machine and then synchronised with the nodes.

Check that the:

- 1. DM and Nodes are stopped.
- 2. All directory paths that you created contain no spaces.
- 3. Open File Descriptor limit is 8192. (ulimit -n 8192).
- 4. required OS libraries/patches are installed on all systems

### Steps:

Copy the IC45 install file (IBM\_Connections\_4.5\_lin\_aix.tar) to your Deployment Manager and decompress it.

Start the IBM Installation Manager: got to the folder: **/opt/IBM/InstallationManager/eclipse** and start **./launcher** In the IM specify the IC45 repository file.

Select Install to start the IC45 install and follows these screen

#### Select Version 4.5.0.0

)		IBM Installation Manager		_ 0 X
	Install Packages			-
	Select packages to install:			
	Installation Packages	Status	Vendor	License Key Type
	🔻 🗹 🗊 IBM Connections			
	☑ 🖗 Version 4.5.0.0	Will be installed		

#### In the next screen select Accept the license agreement; then click Ne

		Å
✓ IBM <sup>®</sup> Connections	NOTICES AND INFORMATION	_
IBM® Connections	IBM Lotus Connections Version 3.0.1	_
IBM® Connections License Agreement	The IBM license agreement and any applicable information on the web download page for IBM products refers Licensee to this file for details concerning notices applicable to code included in the products listed above ("the Program"). Notwithstanding the terms and conditions of any other agreement Licensee may have with IBM or any of its related or affiliated entities (collectively "IBM"), the third party code identified below is subject to the terms and conditions of the IBM license agreement for the Program and not the license terms that may be contained in the notices below. The notices are provided for informational purposes. Please note: This Notices file may identify information that is not used by, or that was not shipped with, the Program as Licensee installed it. IMPORTANT: IBM does not represent or warrant that the information in this NOTICES file is accurate. Third party websites are independent of IBM and IBM does not represent or warrant that the information on any third party website referenced in this NOTICES file is accurate. IBM disclaims any end of Within for mercend emicine formation for the represent or warrant that the information on any third party	
<ul> <li>I accept the terms in the license agreements</li> </ul>		Print All
O I do not accept the terms in the license agree	ments	

Specify the Installation Directory and  $\ensuremath{\textbf{Next}}$  to continue...

Install Packages					
-					4
A package group is a location that contains one of package group and will share a common user inte	r more packages. Som erface. Select an existi	e compatible package ng package group, or	es can be install create a new or	ed into a con ne.	mmon 🏻 🎽
Install Licenses Location F	Features Summa	ary			
O Use the existing package group					
<u>Create a new package group</u>					
Package Group Name	Installation	Directory			Architecture
IBM® Connections	/ont/IBM/O	onnections			Architecture
Package Group Name: IBM® Connections					
Installation Directory: /opt/IBM/Connections					B <u>r</u> owse
Details		Disk Sp	ace Informat	ion	
Shared Resources Directory: /opt/IBM/IMShared		Volum	e Available S	pace	
		1	12.58 GB		
		1			

Select what applications to install.

I selected Metrics because when I get to the Cognos install screen I can choose Not to Install Now and do this later.

I did NOT select IBM Connections Cor	<b>itent Manager</b> (Filene
Install Packages	
Select the features to install.	
Install Location Features Summary	<u>^</u>
Features	
マ 🖃 🗊 IBM Connections 4.5.0.0	
マ 🗹 🕼 Core Features	
☑ Home page	
✓ News repository	
✓ Search	
▽ 🗹 🚯 All Features	
✓ Activities	
✓ Blogs	
✓ Bookmarks	T I
Communities	
✓ Files	
✓ Forums	
✓ Metrics	
Show dependencies	Expand All Collapse All Restore Default
🏇 - Selected by Installation Manager because of dependencies	
Details	_
Metrics	
The Metrics application is required for data capture. Even if you are not setting up	Cognos yet, install Metrics now so that your
application data is captured from the moment that IBM connections is deproyed.	
	•
0 <	Back Next > Install Cancel
Note: IBM Connections Content Mar	ager is not selected
🗹 Wikis	
▽ 🗌 🇞 Add-on Features	
IBM Connections Content Manager	v
Show dependencies	Expand All Collapse All Restore Default

B-4-11-

%- Selected by Installation Manager because of dependencies

Select the path to the WebSphere Application Server instance running on your deployment manager. Enter the hostname,

## NOTE: the Administration user ID = AdminFromLDAP

Select the Validate button at the bottom

	IBM Installation Manager _ 🗆
Install Packages Fill in the configurations for the	e packages.
Common Configurations     WebSphere	Common Configurations WebSphere
<ul> <li>Topology</li> <li>Database</li> <li>Cognos</li> <li>Content Store</li> <li>Notification</li> </ul>	WebSphere Application Server Selection         Installation location:         /opt/IBM/WebSphere/DeploymentManager         Browse         Deployment manager profile:         Dmgr01         Host name:         dm&ihs.spnego.company.com         Deployment Manager Credentials         These credentials must exist for the selected Profile.         Administrator user ID:         Administrator password:         ••••••••         Validate

The install will then proceed to perform varius checks and retrieve info from the DM. After a few moments you should get the prompt: **Validation successful.** Select **OK**, then **Next** to continue.

۵		Information Dialog	×
Q	Validation successful.		
			ОК

## Selected the **Medium** topology

Select the Nodes as required (I selected all nodes) then **Next** 

٥		IBM Installation Manager	x			
	Install Packages         Fill in the configurations for the packages.         Install       Licenses         Location       Features         Summary					
	<ul> <li>✓ ∅ Common Configurations</li> <li>☑ WebSphere</li> <li>Common Configurations</li> </ul>					
	<ul> <li>Topology</li> <li>Database</li> <li>Cognos</li> <li>Content Store</li> <li>Notification</li> </ul>	Deployment topology         Select the deployment type:         Small - All applications are grouped in the same cluster.         Medium - Applications grouped in several clusters.         Large - Each application is grouped in its own cluster.         If you return to this page during installation, your settings remain but are not visible. To change a settings, you must enter all of the information again. If you do not want to change them, click Next.         Cluster         Enter a cluster name or select an existing cluster name. Then select the nodes for each cluster and enter a server name or accept the default server name.         Restore Defaults				
	4	Application     Cluster     Node     Server       ▼     Activities     Cluster1     ☑     dslvm1035Node01     Cluster1_server1       ☑     dslvm1036Node01     Cluster1_server2				

Configure **Database** - (the database server must be started) as shown below; click **Validate**; then **Next** 

	ocation Fea	tures > Summa	ary			
Common Configurations     WebSphere	<b>Common Configu</b> Database	rations				
Topology						Å
🥪 Database	Database Loca	ation				
Cognos	Are all IBM Con	nections application	ns using the same o	latabase instance?		
Content Store	<ul> <li>Yes, the app</li> </ul>	lications are on the	same database ins	tance.		
8 Notification	🔿 No, the appl	ications are not on	the same database	instance.		
	If you return to change a settin change them, c	this page during ins gs, you must enter lick Next.	stallation, your sett all of the information	ings remain but are no on again. If you do not	t visible. To want to	
	Database Typ	e				
	DB2 Universa	l Database(TM)	•			
	Database Ser	ver				
	Host name:					
	db2.spnego.co	mpany.com				
	Port:					
	50000					
<u> </u>	IDRC driver loc	ation				
⊌ Nouncation	, JDBC driver loc	ation:				
	/opt/DB2-JDB0	C-jars	Browse			
	Database Cre	dentials				
	✓ Use the sar	ne password for all	applications.			
	Application	Database Name	User ID	Password	_	
	Activities	OPNACT	db2inst1			
	Blogs	BLOGS	db2inst1			ſ
	Bookmarks	DOGEAR	db2inst1			
	Communities	SNCOMM	db2inst1	****		
	Files	FILES	db2inst1			

Next is Cognos - select Do later



#### Next Content Store

Enter the **network share location** (that will be shared with the Application servers Node1 & Node2) Enter the **local content store;** then **Validate;** then **Next** 

۵		IBM Installation Manager	_ 0 X	
Install Packages Fill in the configurations for the packages.				
	Install Licenses Location Features Summary			
⊽	<ul> <li>Common Configurations</li> <li>WebSphere</li> </ul>	Common Configurations Content Store		
☑ Topology ☑ Database		Shared Content Store		
	Cognos Content Store	Content that is shared among all nodes. Ensure each node in the cluster can access the network location.		
	O Notification	Select a network shared location: /opt/IC_Share		
Local Content Store         Content is stored locally on each node. Ensure the path exists on each node.         Select a local location:         /opt/IBM/Connections/data/local/         Validate		Local Content Store Content is stored locally on each node. Ensure the path exists on each node.		
		Select a local location: /opt/IBM/Connections/data/local/		
		Validate		
4	•	J.		
?		< <u>Back</u> <u>Next</u> > <u>Install</u> C	ancel	

For **Notifications** I selected **None** as I will configure that later.

Install Packages Fill in the configurations for the	e packages.	
Install 🔪 Licenses 📎	Location Features Summary	
♥ (i) Common Configurations ■ WebSphere	Common Configurations Notification	
<ul> <li>☑ Topology</li> <li>☑ Database</li> <li>☑ Content Store</li> <li>☑ Notification</li> </ul>	Notification allows both IBM Connections applications and users to send mail notifications. ReplyTo allows users to reply to notifications using email. Replies appear in the relevant application in IBM Connections. O Enable Notification only. O Enable Notification and ReplyTo.	×
	⊙ None.	

And finally the summary screen.... click **Install** to begin the install of IC45. This may take over an hour to complete.

۵	IBM Installation Manager	_ = ×
	Install Packages	
	Review the summary information	
	Install Licenses Location Features Summary	
	Target Location	
	Package Group Name: IBM Connections	
	Installation Directory: /opt/IBM/Connections	
	Shared Resources Directory: /opt/IBM/IMShared	
	Packages	
	Packages	<u>^</u>
	▼	
	🚯 Home page	
	🕼 News repository	
	🕼 Search	
	🕼 Activities	×
	Environment Disk Space Information	
	English To	otal Available Space
	1	47.07 GB
	Total Download Size: 1.09 GB	
	Total Installation Size: 8.64 GB	
	Repository Information	
0	O     Seck Next > Insta	II Cancel

Once the install is complete you'll see:

٥	IBM Installation Manager	×
Install Packages		
	The packages are installed. <u>View Log File</u>	
	Install results : A way	
	The following package was installed: v $e_{a}$ IBM Connections () IBM Connections 4.5.0.0	
	Note: If the packages support rollback, the temporary directory contains rollback files for installed packages. You can delete the files on the <u>Files for rollback</u> preference page.	
0		<u>F</u> inish

Select **Finish** to exit and return to the Installation Manager, then select **File -> Exit** 

# 8. Post Install steps

#### 8.1 Copying Search conversion tools to local nodes

\_\_\_\_1. On each Applications server (node) copy the entire **stellent** folder in the shared drive (under **/opt/IC\_Share/search**) to the local **search** folder under **/opt/IBM/Connections/data/local**.

\_\_\_\_2. Via the WAS console update the Websphere variable: **FILE\_CONTENT\_CONVERSION** to point to the **exporter** file in the stellent folder on local drive of each node (that you copied in step 1) set the variable:

FILE\_CONTENT\_CONVERSION=/opt/IBM/Connections/data/local/search/stellent/dcs/oiexport/exporter

\_\_\_\_\_3. Edit the file **setupCmdLine.sh** and add the following export statements

vi /opt/IBM/WebSphere/AppServer/bin/setupCmdLine.sh

add

export PATH=\$PATH:/opt/IBM/Connections/data/local/search/stellent/dcs/oiexport export LD\_LIBRARY\_PATH=\$LD\_LIBRARY\_PATH:/opt/IBM/Connections/data/local/search/stellent/dcs/oiexport

\_\_\_4. Add the following export statements to the /etc/profile file

export PATH=\$PATH:/opt/IBM/Connections/data/local/search/stellent/dcs/oiexport export LD\_LIBRARY\_PATH=\$LD\_LIBRARY\_PATH:/opt/IBM/Connections/data/local/search/stellent/dcs/oiexport

#### 8.2 Configuring the HTTP Server

#### 1) Add the Wed server as an unmanaged node AND Add Web server as a server

A quick way to do this is to use the special configure file that was created when the IHS was created as follows:

From the IHS server, copy the file /opt/IBM/WebSphere/Plugins/bin/configurewebserver1.sh (remember I used the name 'webserver1' when creating the IHS server) to the Deployment Manger system in to the folder: /opt/IBM/WebSphere/AppServer/bin

NOTE: The above filename and location will vary depending on what values you used to install the IHS and the Deployment Manager

On the DM machines run the **configurewebserver1.sh** file as follows cd /opt/IBM/WebSphere/AppServer/bin ./configurewebserver1.sh

You will be prompted to enter WAS credentials and then after a few minutes the creation of the Web server will complete...you should see the following messages appear:

[root@dubxpcvm603 bin]# ./configurewebserver1.sh WASX72091: Connected to process "dmgr" on node dubxpcvm603CellManager01 using SO AP connector; The type of process is: DeploymentManager MASX73031: The following options are passed to the scripting environment and are available as arguments that are stored in the argv variable: "[webserver], IBS, /opt/IBM/HTFServer, /opt/IBM/HTFServer/conf/httpd.conf, 80, WAP\_ALL, /opt/IBM /Websphere/Plugins, unmanaged, dubxpcvm603.mul.ie.bm.com-node, dubxpcvm603.mul. ie.ibm.com, linux, 8008, ihsadmin, passw0rd]"

Input parameters:

Found node with matching hostname. Using existing node dubxpcvm603Node01

Node definition dubxpcvm603Node01 already exists.

Creating the web server definition for webserverl on node dubxpcvm603Node01. Parameters for administering IHS web server can also be updated using wsadmin sc

#### And end with...

Computed the current target mapping for the application Wikis.							
Start updating the target mappings for the application Wikis.							
ADMA50751: Editing of application Wikis started.							
ADMA5058I: Application and module versions are validated with versions of deploy							
ment targets.							
ADMA50051: The application Wikis is configured in the WebSphere Application Serv							
er repository.							
ADMA5005I: The application Wikis is configured in the WebSphere Application Serv							
er repository.							
ADMA5005I: The application Wikis is configured in the WebSphere Application Serv							
er repository.							
ADMA5005I: The application Wikis is configured in the WebSphere Application Serv							
er repository.							
ADMA5113I: Activation plan created successfully.							
ADMA5011I: The cleanup of the temp directory for application Wikis is complete.							
ADMA5076I: Application Wikis edited successfully. The application or its web mod							
ules may require a restart when a save is performed.							
Target mapping is updated for the application Wikis.							

Processing the application connectionsProxy.

Get the current target mapping for the application connectionsProxy.
Computed the current target mapping for the application connectionsProxy.
Start updating the target mappings for the application connectionsProxy.
ADMA50751: Editing of application connectionsProxy started.
ADMA5058I: Application and module versions are validated with versions of deploy
ment targets.
ADMA5005I: The application connectionsProxy is configured in the WebSphere Appli
cation Server repository.
ADMA5005I: The application connectionsProxy is configured in the WebSphere Appli
cation Server repository.
ADMA5005I: The application connectionsProxy is configured in the WebSphere Appli
cation Server repository.
ADMA50051: The application connectionsProxy is configured in the WebSphere Appli
cation Server repository.
ADMA5113I: Activation plan created successfully.
ADMA5011I: The cleanup of the temp directory for application connectionsProxy is
complete.
ADMA50761: Application connectionsProvy edited successfully. The application or

(ADMA50/61: Application connectionsFroxy edited successfully. The its web modules may require a restart when a save is performed. Target mapping is updated for the application connectionsFroxy. Start saving the configuration.

Configuration save is complete.

Stops and restart the Deployment Manager

Log in to the WAS console and verify that the Web server has been added under **Servers -> Server Types -> Web servers** and you should see:

Try Stop and Start the web server thru the menu options.

Neb servers					? -				
Web servers									
Use this page to view a list of the installed web servers.									
🗟 Preferences									
Generate Plug-in Propagate Plug-in New Delete Templates Start Stop Terminate									
Select Name 🗘	Web server Type 🛟	Node 💝 _	Host Name 🗘	Version 😂	Status ሷ				
You can administer the following resources:									
webserver1	IBM HTTP Server	dubxpcvm603Node01	dubxpcvm603.mul.ie.ibm.com	Base 8.0.0.5	•				
Total 1									

Note: The IHS administrator must be running in order to be able to administrate the web server via this Web server panel and to to synchronize configuration files between the HTTP Server and the DM. To do this navigate to **../HTTPServer/bin** directory (on the IHS server) and issue the command: **./adminctl -k start** 

#### \_2) Generate and Propagate configuration info to the Plugin-cfg.xml file

### Return to Servers - Server Types - Web Servers.

Select the check box beside **webserver1** and click the **Generate Plug-in** button.

Web servers								
Use this page to view a list of the installed Web servers.								
Preferences								
Generate Plug-in Propagate Plug-in	Generate Plug-in Propagate Plug-in New Delete Templates Start Stop Terminate							
Select Name 🛟 🛛 Web server Type 🛟 _	Node 🗘 🔤	Host Name 💲 🔤	Version $\Diamond_{-}$	Status ሷ				
You can administer the following resources:								
webserver1         IBM HTTP Server	webserver	dm&ihs.spnego.compan	Not applicable	€				
Total 1								

#### results in...

/eb servers						?			
E	🖻 Messages								
	PLGC00051: Plug-in configuration file = C:\IBM\WebSphere\AppServer \profiles\Dmgr02\config\cells\connectionsCell01\nodes\webserver\servers \webserver1\plugin-cfg.xml								
	PLGC00521: Plug-in configuration file generation is complete for the Web server. connectionsCell01.webserver.webserver1.								
Web servers									
Use this page f	o view a list	of the installed	d Web serve	'S,					
⊕ Preferences									
Generate Plu	g-in Propa	gate Plug-in	New Del	ete <b>Templates</b> Start	Stop Te	rminate			
Select Name ;	🔈 🛛 Web se	rver Type 🛟 🚬	Node 😂 🔤	Host Name 🛟 🔤	Version $\Diamond_{-}$	Status ሷ			
You can administer the following resources:									
🗖 webserv	ver1 IBM HT	TP Server	webserver	dm&ihs.spnego.compar	Not applicable	€			
Total 1									

Select the check box again and click **Propagate Plug-in** (which propagates the plugin-cfg.xml file to the webserver)

? -

	🖻 Messages								
<ul> <li>PLGC00621: The plug-in configuration file is propagated from C:\IBM \WebSphere\AppServer\profiles\Drugr02\config\cells\connectionsCell01 \nodes\webserver\servers\webserver1\plugin-cfg.xml to c:\IBM\HTTPServer \Plugins\config\webserver1\plugin-cfg.xml on the Web server computer.</li> <li>PLGC00481: The propagation of the plug-in configuration file is complete for the Web server. connectionsCell01.webserver1.</li> </ul>									
Web server	5								
Use this pag	je to vi	ew a list of the installed	l Web serve	rs,					
🕀 Preferenc	es.								
Generate	Generate Plug-in Propagate Plug-in New Delete Templates Start Stop Terminate								
Select Nam	e 🛟	Web server Type 💲	Node 😂 🗕	Host Name 🛟 🔤	Version $\Diamond_{-}$	Status ሷ			
You can administer the following resources:									
🗖 webs	erver1	IBM HTTP Server	webserver	dm&ihs.spnego.company	Not applicable	€			
Total 1									
#### \_3) Propagate The plug-in keyring file from the DM to the IHS web server

Click on webserver1 then click on the link: Plug-in properties

<u>Web servers</u> > webserver1 Use this page to configure a Web server that provides HTTP and HTTPS support to application servers. Runtime Configuration	Web servers	?
	Web servers         > webserver 1           Use this page to configure a Web server that provides HTT           Runtime         Configuration	TP and HTTPS support to application servers.
Ceneral Properties   Web server name   webserver1   Type   IBM HTTP Server   * Port   80   * Web server installation location   C:/IBM/HTTPServer   * Web server installation location   C:/IBM/HTTPServer   * Configuration file name   \${WEB_INSTALL_ROOT}/conf/httpd.cor   * Service name   IBMHTTPServer7.0	Ceneral Properties         Web server name         webserver1         Type         IBM HTTP Server         * Port         80         * Web server installation location         C:/IBM/HTTPServer         * Configuration file name         \${WEB_INSTALL_ROOT}/conf/httpd.cor         Edit         * Service name         IBMHTTPServer7.0	<ul> <li><u>Configuration settings</u></li> <li><u>Web Server Virtual Hosts</u></li> <li><u>Global Directives</u></li> <li><u>Additional Properties</u></li> <li>Log file</li> <li><u>Configuration File</u></li> <li><u>Plug-in properties</u></li> <li><u>Remote Web server management</u></li> <li><u>Custom properties</u></li> <li><u>Ports</u></li> </ul>

#### click on Copy to Web server key store directory

Described and filled and also is filled
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

The following message is displayed to indicate the successful copying of these keys. Once again, restart the webserver for the plugin changes to take effect.

🗆 Messages



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## \_4) Adding Certificates to the WebSphere Trust Store

On the WebSphere Administration Console go to Security > SSL Certificate and Key Management. > Key stores and certificates

Click CellDefaultTrustStore						
E certificate and key ma	nagement		?			
<u>SSL certificate and key management</u> > Key stores and certificates Defines keystore types, including cryptography, RACF(R), CMS, Java(TM), and all truststore types.						
Keystore usages						
SSL keystores						
Preferences						
New Delete Ch	ange password Exchange signer	s				
0 6 # \$						
Select Name 🛟	Description 🗘	Management Scope 🗘	Path 🗘			
You can administer the	following resources:					
CMSKeyStore	CMSKeyStore for web server webserver1.	(cell):dmCell01: (node):webserver: (server):webserver1	\${CONFIG_ROOT}/cells /dmCell01/nodes /webserver/servers /webserver1/plugin- key.kdb			
CellDefaultKeySt	Default key store for dmCell01	(cell):dmCell01	\${CONFIG_ROOT}/cells /dmCell01/key.p12			
CellDefaultTrust	Default trust store for dmCell01	(cell):dmCell01	\${CONFIG_ROOT}/cells /dmCell01/trust.p12			
		2 US 1 - U	1.0000000000000000000000000000000000000			

From within **CellDefaultTrustStore**, click the **Signer certificates** link from the right hand side

nes keystore types, including cryptography, RACF(R), CMS, J.	ava(TM), and all truststore types.
eneral Properties	Additional Properties
Name	Signer certificates
CellDefaultTrustStore	Bersonal
Description	<u>certificates</u>
Default trust store for dmCell01	Personal
Management scope	<u>certificate</u> <u>requests</u>
2 US 1 = U=1	Custom
	<u>Custom</u>

To add the webservers signer to the trust store, click the  $\ensuremath{\textbf{Retrieve from Port}}$  button.

33	oor ceruncate and key management				
	<u>SSL certificate and key management &gt; Key stores and certificates &gt; CellDefaultTrustStore</u> > Signer certificates				
	Manages signer certificates in key stores.				
	Preferences				
	Add Delete Extract Retrieve from port				
	Select Alias 🔿 Issued to 🛆 🛛 🖓	iaerorint (SHA Diaest) 🛆			

Enter the hostname of the webserver and its SSL port (typically 443) and an Alias

Click the **Retrieve signer information** button, which retrieves the information shown at the bottom of the screenshot.

Click  ${\bf OK}$  to add this certificate to the list of signers.

click **Save** to save this change.

<u>SL certificate and key management</u> > Key stores and certificates > <u>CellDefaultTrustStc</u> gner certificates > Retrieve from port	<u>rre</u> >
akes a test connection to a Secure Sockets Layer (SSL) port and retrieves the signer fro erver during the handshake.	m the
neral Properties	
Host dm&ihs.spnego.company.com	
Port	
SEL configuration for outbound connection CellDefaultSSLSettings 尾	
Alias	
webserver_ssl	
webserver_ssl	
webserver_ssi	
webserver_ssi Retrieve signer information Retrieved signer information	
webserver_ssl Retrieve signer information Retrieved signer information Serial number	
webserver_ssl Retrieve signer information Retrieved signer information Serial number 989854342	
Webserver_ssi Retrieve signer information Retrieved signer information Serial number 989854342 Issued to	
webserver_ssi Retrieve signer information Retrieved signer information Serial number 989854342 Issued to CN=WebSphere Plugin Key, OU=SWG, O=IBM, C=US	
webserver_ssi Retrieve signer information Retrieved signer information Serial number 989954342 Issued to CN=WebSphere Plugin Key, OU=SWG, O=IBM, C=US	
Retrieve signer information Retrieved signer information Serial number 989854342 Issued to CN=WebSphere Plugin Key, OU=SWG, O=IBM, C=US Issued by	
Retrieve signer information Retrieved signer information Serial number 989854342 Issued to CN=WebSphere Plugin Key, OU=SWG, O=IBM, C=US Issued by CN=WebSphere Plugin Key, OU=SWG, O=IBM, C=US	
webserver_ssi Retrieve signer information Retrieved signer information Serial number 989854342 Issued to CN=WebSphere Plugin Key, OU=SWG, O=IBM, C=US Issued by CN=WebSphere Plugin Key, OU=SWG, O=IBM, C=US Fingerprint (SHA digest)	
webserver_ssi Retrieve signer information Retrieved signer information Serial number 989854342 Issued to CN=WebSphere Plugin Key, OU=SWG, O=IBM, C=US Issued by CN=WebSphere Plugin Key, OU=SWG, O=IBM, C=US Fingerprint (SHA digest) 4D16D1531ED19218314B1D41581AB13F13D10A1D711419E16816818517D	
webserver_ssl         Retrieve signer information         Serial number         989854342         Issued to         CN=WebSphere Plugin Key, OU=SWG, O=IBM, C=US         Issued by         CN=WebSphere Plugin Key, OU=SWG, O=IBM, C=US         Issued by         CN=WebSphere Plugin Key, OU=SWG, O=IBM, C=US         Fingerprint (SHA digest)         4D16D153218314B1D41581AB13F13D10A1D711419E16816818517D	
webserver_ssi         Retrieve signer information         Serial number         989854342         Issued to         CN=WebSphere Plugin Key, OU=SWG, O=IBM, C=US         Issued by         CN=WebSphere Plugin Key, OU=SWG, O=IBM, C=US         Fingerprint (SHA digest)         4D:6D:53:ED:82:83:48:D4:58:AB:3F:3D:0A:D7:14:9E:68:68:85:7D         Validity period	

## results in:

Manag	jes signer certifi	cates in key stores.			
+ Pre	ferences				
Add Delete Extract Retrieve from port					
D	6 # 7				
Select	Alias 🛟	Issued to 🗘	Fingerprint (SHA Digest) 🗘	Expiration $\diamondsuit$	
You d	an administer t	he following resources:			
	<u>datapower</u>	OU=Root CA, O="DataPower Technology, Inc.", C=US	A9:BA:A4:B5:BC:26:2F:5D:2A:80:93:CA:BA:F4:31:05:F2:54:14:17	Valid from Jun 11, 2003 to Jun 6, 2023,	
	<u>root</u>	CN=dslvm171.litbg02.svg.usma.ibm.com, OU=Root Certificate, OU=dslvm171Cell01, OU=dslvm171CellManager01, O=IBM, C=US	00:A6:16:88:05:ED:78:68:60:18:19:ED:78:0E:AA:F1:7E:37:55:F9	Valid from Apr 12, 2012 to Apr 9, 2027.	
	webserver ssl	CN=dslvm171.litbg02.swg.usma.ibm.com	9D+FC+07+87+31+5F+41+86+01+09+F5+FD+53+48+24+50+C8+72+1D+AC	Valid from Jul 11, 2012 to Jul 11, 2013.	

#### 5) Update Web addresses used by IBM Connections to access content

Using the wsadmin client, check out the **LotusConnections-config.xml** (aka lcc.xml) to a temporary directory. From this directory, this file must be edited so that all **href** and **ssl\_href** values are updated to reflect the hostname of the HTTP Server and do not include any port numbers.

The file LotusConnections-config.xml is located in the folder: LotusConnections-config i.e.

/opt/IBM/WebSphere/DeploymentManager/profiles/Dmgr01/config/cells/dubxpcvm603Cell01/LotusConnections-config

An example of what needs to be done is as follows

<sloc:serviceReference bootstrapHost="connections.example.com" bootstrapPort="2811" clusterName="LotusConnections"</pre>

<sloc:href>

<sloc:hrefPathPrefix>/activities</sloc:hrefPathPrefix>
<sloc:static href="http://connections.example.com:9081" ssl\_href="https://connections.example.com:9444"/>
<sloc:interService href="https://connections.example.com:9444"/>

</sloc:href>

</sloc:serviceReference>

For each Connections applications remove the ":"+port\_numbers of the two 'href' entries and also the 'ssl\_href' entry <sloc:serviceReference bootstrapHost="connections.example.com" bootstrapPort="2811" clusterName="LotusConnections"

<sloc:href>

	<pre><sloc:hrefpathprefix>/activities</sloc:hrefpathprefix></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>			
1	aloc:href>			

</sloc:serviceReference>

Tip: search on "connections.example.com:" and remove the colon (:) and the port number. Once finished you should not be able to find any more occurrences of this string "connections.example.com:" (not the colon at the end of the string; this is most important)

Save the file and check the file back in using the wsadmin client. After the file is checked back in, resynchronize the node so that this change is pushed out.

This completes the webserver, SSL, and certificate configuration for this scenario. Now, when the application is started it can be accessed at http://connections.example.com/<*component*, where <*component* represents any of the Connections applications.

The commands to check-out/ check-in the **Icc.xml** file and sync all nodes are as follows:



# 8.3 Configuring an Administrator User for Homepage

Login to your admin console -> http://dm&ihs.spnego.company.com:9060/admin (use wasadmin user and password).

Select **Application -> Application Types -> WebSphere Enterprise Applications** and then select the **Homepage** app.

Select the Security role to user/group mapping link...

Select the admin role and then the Map Users... button.

Search for the user, **AdminFromLDAP** in my example, and add them.

Select **OK** then **Save**... the result should be:

<u>ander productione</u> production and and a start group mapping						
ecurity role to user/group mapping						
Each role that is defined in the application or module must map to a user or group from the domain user registry. accessIds: The accessId are required only when using cross realm communication in a multi domain scenario. For all other scenarios the accessId will be determined during the application start based on the user or group name. The accessIds represent the user and group information that is used for Java Platform, Enterprise Edition authorization when using the WebSphere default authorization engine. The format for the accessIds is user:realm/uniqueUserID, group:realm/uniqueGroupID. Entering wrong information in these fields will cause authorization to fail. AllAuthenticstedInTrustedRealms: This indicates that any valid user in the trusted realms be given the access.						
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					
	everyone	Everyone				
	everyone reader	Everyone Everyone				
	everyone reader metrics-reader	Everyone Everyone Everyone				

Synchronise your changes with the other nodes.

#### 8.4 Enabling Fast Downloads for Files and Wikis

NOTE: Although this is an optional step for customers we do this for all our test systems.

- \_\_a) On the Deployment Manager copy the file: mod\_ibm\_local\_redirect.so from /opt/IBM/Connections/plugins/ihs/mod\_ibm\_local\_redirect/linux\_x64-ap22/ to the IHS system in to the folder: /opt/IBM/HTTPServer/modules/
- cp /opt/IBM/Connections/plugins/ihs/mod\_ibm\_local\_redirect/linux\_x64-ap22/mod\_ibm\_local\_redirect.so /opt/IBM/HTTPServer/modules/

\_b) Edit the httpd.conf (/opt/IBM/HTTPServer/conf) and add/edit the following:

#### vi /opt/IBM/HTTPServer/conf/httpd.conf

LoadModule ibm\_local\_redirect\_module modules/mod\_ibm\_local\_redirect.so // had to add this LoadModule env\_module modules/mod\_env.so // already existed

\_\_\_\_c) Add the following to the bottom of the httpd.conf file... [node: paths will need to change based on installation]

Alias /downloadfiles /opt/IC\_Share/files/upload/ Alias /downloadwikis /opt/IC\_Share/wikis/upload/ <Directory /opt/IC\_Share/files/upload/> **Order Deny, Allow Deny from all** Allow from env=REDIRECT\_FILES\_CONTENT </Directory> <Directory /opt/IC\_Share/wikis/upload/> **Order Deny, Allow** Deny from all Allow from env=REDIRECT\_WIKIS\_CONTENT </Directory> <Location /files> **IBMLocalRedirect On** IBMLocalRedirectKeepHeaders X-LConn-Auth,Cache-Control,Content-Type,Content-Disposition,Last-Modified,ETag,Content-Language,Set-Cookie SetEnv FILES\_CONTENT true </Location> <Location /wikis> **IBMLocalRedirect On** IBMLocalRedirectKeepHeadErs X-LConn-Auth,Cache-Control,Content-Type,Content-Disposition,Last-Modified,ETag,Content-Language,Set-Cookie SetEnv WIKIS\_CONTENT true </Location>

\_\_\_\_d) On the Deployment Manager edit the **files-config.xml** and **wikis-config.xml** files that can be found in the folder:/opt/IBM/WebSphere/AppServer/profiles/Dmgr01/config/cells/dslvm171Cell01/LotusConnections-config/ and make the following changes:

files-config: search for "<download>" and set the values of the properties to those shown in blue <download> <modIBMLocalRedirect enabled="true" hrefPathPrefix="/downloadfiles" /> <stats>

```
<stat
```

<logging enabled="true" /> </stats> oad>

</download>

wikis-config.xml: search for "<download>" and set the values of the properties to those shown in blue

</download>

#### \_e) Synchronize and Restart IBM Connections as follows:

Do a Full Synchronize on all Nodes

Stop all Connection's clusters

Stop and reStart the Deployment manager

Stop and Restart the  $\ensuremath{\mathsf{HTTP}}$  server

Start all Connections Clusters

#### 8.5 Configure Notifications

Machine Hostname	Applications	Version#	0
dm&ihs.spnego.company.com	WAS Deployment Manager	WAS v8.0.0.5 IHS v8.0.0.5	RedHat 6 (64
	IBM HTTP Server (IHS)		
domino.company.com	Domino Mail-in server	Domino 8.5.3	Win2008 R2 E

## You can configure Notifications by following these steps:

- 1. In the Domino Mailin server, create a special ReplyTo user
- 2. (In Domino) Configure the ReplyTo user for Notifications
- 3. (In Domino) Configuring Domino for email notification replies
- 4. (In Connections DM) Configuring WAS DM for email notification replies
- 5. (In Connections) Configure **news-config.xm**l for notification replies
- 6. (in Connections) Sync and restart Connections

#### 1. Create a special **ReplyTo** user and configure

Open the Domino Admin client, and connect to Domino mail server Select **People & Group** view, click **People** tab on the right panel.

Click **Register**, input the certifier's password for the Domino server.

Check the **Advanced** box and createn a **ReplyTo** user as follows:

Register Person -- ReplyTo ? × Provide name, password and other basic information for the new person. To view/edit additional 🐴 Basics registration settings, check the 'Advanced' checkbox below 😫 Mail Registration Server... /ibm Address Eirst name: Middle name: Last name: Short name: 🗄 ID Info ReplyTo ReplyTo ሕ Groups Password: Majl system: Explicit policy: Roaming passw0rd Lotus Notes (None Available) • 🌍 Other Password Options.. No organization policy assigned to this person Enable roaming for this person Policy Synopsis Create a Notes ID for this person Advanced New Person Import Text File.. Migrate People. Registration Queue (local) A User Name A A Registration Status A Date ^ 07/17/2012 8 ReplyTo Ready for registration Þ Register All Delete Options. Vie<u>w</u>s. <u>R</u>egister Done

The Internet Domain value could be set to the real domain you use:

Register Person	ReplyTo	? ×
🛃 Basics	Mail Internet Address Information	
실 Mail	Internet address	Internet Do <u>m</u> ain
Address	ReplyTo@us.ibm.com	us.ibm.com
🚡 ID Info	Address name <u>f</u> ormat	S <u>e</u> parator
A Groups	FirstName LastName	None
Boaming	Supply internet address format settings for the selected p	eople or person. The Internet address is
Other	created using the person's name, the internet domain and must be unique in the address book.	d internet address format components. It
☑ Ad <u>v</u> anced	New Person Migrate People Import 1	Fe <u>x</u> t File
Registration Que	ie (local):	
∧ UserN	ame ^ Registration Status ^	Date ^
8 ReplyT	o Ready for registration	07/17/2012
Register All	<u>R</u> egister <u>D</u> elete <u>O</u> ptions	Vie <u>w</u> s Done

Click **Register** to complete the registration.

#### 2. Now, configure the ReplyTo user For Notifications

# Go back to People & Groups tab, expand People byOrganization.

Edit the account of the user used to direct reply mail (the ReplyTo user)

Domino Directories	Add Person	🖉 Edit Person 🔞 Delete Person 🕕 Copy to Personal Address Book	. 1
V 🔏 People	Organization	on Name ^	
🖧 by Organization	ibm		
AS Groups		Aamir 000 000	
Control Mail-In Databases and R		Aamir 001 000	
Policies     Denemia Definition		Aamir_007_000	
<ul> <li>Dynamic Policies</li> <li>bu Person (Group)</li> </ul>		Aamir_002_000	
by Category		Aamir_003_000	
Settings		Aamir_004_000	
Certificates		Aamir_005_000	
🚷 Alt Language Info		Aamir_006_000	
🚳 Deny Access Groups		Aamir_007_000	
		Aamir_008_000	
		Aamir_009_000	
		Abalo_000_001	
		admin	
		ReplyTo	_

#### Click Open Mail File for the ReplyTo user.

#### Select the **View > Agents** menu item.



## Click New Agent.

D	Q	New Agent 🖌 Enabl	e 🛞 Disable	🖋 Sign				
		Name 🗘	Alias 🗘	Last Modified 🗘 👘	Last Modifie			
	۲	LocalScheduledArchive		09/14/2011 05:43:17	Lotus Notes Te			
9		Lotus iNot_es\Edit Offline (	Lotus iNotes\Edit C	09/14/2011 05:43:28	Lotus Notes Te			
		Lotus iNot_es\Open Mail F	Lotus iNotes\Open	09/14/2011 05:43:28	Lotus Notes Te			
		Lotus iNot_es\Synchronize	iwa_SyncJournal	09/14/2011 05:43:31	Lotus Notes Te			
	۲	LotusInboxCleanup		09/14/2011 05:43:17	Lotus Notes Te			
I	۲	OutOfOffice	OutOfOffice	09/14/2011 05:43:19	Lotus Notes Te			
	۲	Update Tasks	Update Tasks	09/14/2011 05:43:21	Lotus Notes Te			
		(Add Recipients to new Gro	Add Recipients\to r	09/14/2011 05:43:13	Lotus Notes Te			
		(Add Recipients to new Gro	NewGroup	09/14/2011 05:43:13	Lotus Notes Te			
		(AddSenderToAddressBoo		09/14/2011 05:43:22	Lotus Notes Te			

# set the Name field to "replyto"



#### Add the following Lotusscript code to the agent:

#### Sub Initialize

```
Dim session As New NotesSession
Dim db As NotesDatabase
Dim view As NotesDocument
Dim doc As NotesDocument
Set db = session.CurrentDatabase
Set view = db.getView("$Sent")
Set doc = view.GetFirstDocument()
While Not(doc Is Nothing)
Call doc.PutInFolder("$inbox")
```

```
Set doc = view.GetNextDocument(doc)
```

```
Wend
```

```
End Sub
```



Save your changes.

IBM Domino Administrator 🛛 🔀						
Do you want to save your changes?						
Yes No Cancel						

Open the agent again to set the following properties:

- in the **Options** section select **Shared**.
- in the Runtime section select On schedule, and then select More than once a day.
- in the Target field select All new & modified documents.

select **Schedule..** and set a schedule to run every 5 minutes, all day.

Agent	<u> </u>
8 📼	<del>0</del>
Name Comment	replyto
Options	Shared Private     Store search in search bar menu     Store highlights in document     Run in background client thread
Runtime	Trigger       On event       On schedule         More than once a day       Image: Chedule         Schedule       Image: Chedule         Target       All new & modified documents         Searches may be set via Document Selection

#### \_3. Configuring Domino for email notification replies

Open Domino Admin client and click on configuration tab.

Expand **Messaging** in the navigator panel, and then click **Configuration**.

IBM Domain - Contraction - Los Re	eplyTo - Inbox 🗙						
People & Groups   Files   Server   M	essaging Replication Configur	ation					
Server exercises 5.2 on Windows/2003 5.2 Intel Pentium							
<ul> <li>Server</li> <li>Current Server Document</li> </ul>	Add Configuration	Edit Configuration 🔞 Delete Confi					
📰 All Server Documents	Server Name	Parameters					
Configurations	ibm						
Lonnections							
External Domain Network Inf							
🗸 🛐 Messaging							
📓 Messaging Settings							
📰 Domains							
Connections							
Configurations							
Internet Sites							
Ele Identifications							

# Select the messaging server record and click Edit Configuration.

Click the **Router/SMTP** tab, then the **Restrictions and Controls** tab, and then the **Rules** tab...then click **New Rule...** 

Basice Security Client Upgrade Router/SMTP MIME NOTES.INI Settings Lotus iNotes IMAP SNMP Activity Logging Diagnostics Administration					
Basics   Restrictions and Controls   Message Disclaimers   Message Tracking   Message Recall   Advanced					
Restrictions SMTP Inbound Controls SMTP Outbound Controls Delivery Controls Transfer Controls Rules					
🕲 New Rule 🖉 Edit Rule 🖲 Delete Rule 🖉 Move Up 🧭 Move Down 🏈 Enable Rule 🧭 Disable Rule					

create a rule that moves emails that have the string "Icreplyto\_ " in the To field to the mailbox as follows

This rule is: 💿 On O Off		
Specify Conditions		
Create: C Condition C Exception		
AND 💌 sender 💌 contains 💌		
When mail messages arrive that meet these conditions:		
When: To contains Icrealyto		Add
		Remove
		Remove All
Specify Actions		
journal this message		
Perform the following actions:		
move to Database mailtreplyto.nsf		Add Action
		Remove
		Remove All
L		
	ок	Cancel

- Save and Close.
- Stop and Restart the Domino server

# \_\_\_\_4.1 Create and configure the mail session: "Icnotifications"

login to the WAS Console: https://dm&ihs.spnego.company.com:9043/ibm/console

# select Resources > Mail > <u>Mail Sessions</u>

tail Sessions				2			
Mail Sessions							
Use this page to create mail sessions, which are collections of properties that define how your application sends mail and accesses the mail store. To create a useful mail session, an outgoing or incoming server and protocol must be provided. Configure mail sessions only after you configure the necessary protocol providers.							
Scope: Cell=dubxpcv	m603Cell01						
Show scope sele	action drop-down list with the all scopes	option					
Scope specifies how it works, <u>se</u> Cell=dubxpc	Scope specifies the level at which the resource definition is visible. For detailed information on what scope is and how it works, <u>see the scope settings help.</u> Cell=dubxpcvm603Cell01						
± Preferences							
New Delete							
Select Name 🛟	Select Name 🗘 JNDI name 🗘 Scope 🗘 Provider 🗘 Description 🗘 Category 🗘						
None							
Total 0							

# Select Scope = Cell=XXXXCell01, then select New...

#### Mail Sessions

Use this page to create mail sessions, which are collections of properties that define how your application sends mail and accesses the mail store. To create a useful mail session, an outgoing or incoming server and protocol must be provided. Configure mail sessions only after you configure the necessary protocol providers.							
☐ Scope: Cell=dubxpcvm603Cell01							
$\overline{f V}$ Show scope selection drop-down list with the all scopes option							
Scope specifies the level at which the resource definition is visible. For detailed information on what scope is and how it works, <u>see the scope settings help.</u> Cell=dubxpcvm603Cell01							
Preferences							
New Delete							
Select Name 🗘 JNDI name 🗘 Scope 🗘 Provider 🗘 Description 🗘 Category 🗘							
None							
Total 0							

Ξ	Messages				
	Additional Propert	ties for this object will not be K.	a available to edit u	ntil its general properties are applie	d by clicking
<u>Sessions</u> > New	mail consists and the	am collections of our of	e that dafi b	ur application condild	cas the mail store. To
uns page to creat ul mail session, a ident.	e mail sessions, which n outgoing or incoming	g server and protocol must l	be provided. Configu	ur application sends mail and acces ire mail sessions only after you con	figure the necessary proto-
figuration					
General Properties	;		]	The additional properties will not be properties for this item are applied of	available until the general or saved.
Scope cells:dubxpcvm6	03Cell01			Additional Properties	
Provider				Custom properties	
ovider					
Built-in Mail	Provider 💌				
Create New Pro	VICEI				
* Name Icnotification					
* JNDI name					
mail/notification					
Description					
Category					
Enable de	int Internet addr	ass parsing			
Outgoing Mail	Properties	ess parsing			
Server		7			
domino.co	mpany.com				
smtp 💌	]				
User				_	
Password					
Verify Pass	word			_	
Return e-n	nail address				
Return e-n	nail address				
Return e-n	nail address Properties				
Return e-n	nail address				
Return e-n	nail address			 	
Return e-n	nail address				
Return e-n Return e-n Server * Protocol imap 7 User	nail address				
Return e-n Incoming Mai Server + Protocol imap y User Password	nail address				

Apply OK Reset Cancel

#### select <u>Mail Sessions</u> > <u>Icnotification</u> > **Custom properties**

#### create/verify the following settings: Mail Sessions

# <u>Mail Sessions</u> > <u>lcnotification</u> > Custom properties

Use this page to specify custom properties that your enterprise information system (EIS) requires for the resource providers and resource factories that you configure. For example, most database vendors require additional custom properties for data sources that access the database.

? -

#### Preferences

New Delete							
Select	Select Name 🗘 Value 🗘 Description 🗘 Required 🗘						
You c	an administer the following res	ources:					
	mail.smtp.connectiontimeout	12000		false			
	mail.smtp.timeout	12000		false			
	mail.smtp.port	25		false			
	mail.smtp.auth	false		false			
Total	4						

# \_4.2 Create and configuring the Mail Session: "Icreplyto"

## select Resources > Mail > <u>Mail Sessions</u>

Hail Sessions ? -							
Mail Sessions							
Use this page to create mail sessions, which are collections of properties that define how your application sends mail and accesses the mail store. To create a useful mail session, an outgoing or incoming server and protocol must be provided. Configure mail sessions only after you configure the necessary protocol providers.							
Scope: Cell=dubxpcvm603Cell01							
Showscope selection drop-de	own list with the all scopes option						
Scope specifies the level at which the resource definition is visible. For detailed information on what scope is and how it works, <u>see the scope settings help.</u> Cell=dubxpcvm603Cell01							
± Preferences							
New Delete							
C C # \$							
Select Name 🗘 JNDI name 🗘 Scope 🗘 Provider 🗘 Description 🗘 Category 🗘							
None							
Total 0							

# Select Scope = Cell=XXXXCell01, then select New...

Mail Sessions					2 -		
Mail Sessions Use this page to create mail sessions, which are collections of properties that define how your application sends mail and accesses the mail store. To create a useful mail session, an outgoing or incoming server and protocol must be provided. Configure mail sessions only after you configure the necessary protocol providers.							
Scope: Cell=dubxpcvm603Ce	Scope: Cell=dubxpcvm603Cell01						
Show scope selection drop-down list with the all scopes option          Scope specifies the level at which the resource definition is visible. For detailed information on what scope is and how it works, see the scope settings help.         Cell=dubxpcvm603Cell01							
New Delete							
Select Name 🗘	JNDI name 🗘	Scope 🗘	Provider 🗘	Description 🗘 Ca	ategory 🗘		
You can administer the following resources:							
Icnotification	mail/notification	Cell=dubxpcvm603Cell01	Built-in Mail Provider				
Total 1			-				

# Enter the following information... then **OK**, then **Save**

	☐ Messages	edit until its general properties are applied by clicking		
t <mark>essions</mark> > New his page to crea I mail session, lers.	 ate mail sessions, which are collections of properties that define an outgoing or incoming server and protocol must be provided. (	iow your application sends mail and accesses the mail store. To c onfigure mail sessions only after you configure the necessary pro	reate otocol	
guration				
ieneral Properties		The additional properties will not be available until the general properties for this item are applied or saved.		
Scope	6000 Hot	Additional Properties		
cells:dubxpcvr	n603Cell01	Custom properties		
Provider				
Duilt in Ma	il perioden 📕			
Duitein Ma				
Create New P	rovider			
Name				
lcreplyto				
JNDI name				
mail/replyto				
Description		1		
Category				
Category				
Category				
Category Enable debug	g mode			
Enable debug	g mode Internet address parsing			
Enable debug Enable strict :	g mode Internet address parsing operties			
Category Enable debug Enable strict I tgoing Mail Pro	g mode Internet address parsing operties			
Category Enable debug Enable strict : tgoing Mail Pro Server	) mode Internet address parsing operties			
Category Enable debug Enable strict : itgoing Mail Pro Server	g mode Internet address parsing operties			
Category Enable debug Enable strict : Itgoing Mail Pro Server	g mode Internet address parsing operties			
Category Enable debug Enable strict : tgoing Mail Pro Server	g mode Internet address parsing operties			
Category Enable debug Enable strict : Itgoing Mail Pro Server Protocol Smtp V User	g mode Internet address parsing operties			
Category Enable debug Enable strict : tgoing Mail Pro Server Server Smtp y User User	g mode Internet address parsing operties			
Category Enable debug Enable strict : tgoing Mail Pre- Server Protocol User User Password	g mode Internet address parsing operties			
Category Category Enable debug Enable strict : tgoing Mail Pro Server Drotocol Smtp  User User Verify Password Verify Password	g mode Internet address parsing operties			
Category Enable debug Enable strict : tgoing Mail Pro Server Protocol Smtp J User User Verify Password	g mode Internet address parsing operties			
Category Category Enable debug Enable strict tgoing Mail Pro Server Protocol User User Verify Password Return e-mail	g mode Internet address parsing operties			
Category Category Enable debug Enable strict tgoing Mail Pro Server Protocol smtp Password Verify Password Return e-mail	g mode Internet address parsing operties			
Category Category Enable debug Enable strict tgoing Mail Pro Server Protocol Smtp  Password Verify Password Return e-mail coming Mail Pro	g mode Internet address parsing sperties d address sperties			
Category Category Enable debug Enable strict tgoing Mail Pre Server Protocol Entry Verfy Password Verfy Password Return e-mail coming Mail Pre	g mode Internet address parsing opperties d address opperties			
Category Category Enable debug Enable strict tgoing Mail Pre Server User User Venfy Password Return e-mail coming Mail Pre Server Gerver	g mode Internet address parsing operties d address operties nay.com			
Category Category Enable debug Enable strict tgoing Mail Pri Server Server Password Verify Password Verify Password Return e-mail coming Mail Pri Server domino.comp Demboal	g mode Internet address parsing operties d d address operties nay.com			
Category Category Enable debug Enable strict tgoing Mail Pr Server Password User Password Verify Password Verify Password Coming Mail Pr Server domino.comp	g mode Internet address parsing operties d address operties nay.com			
Category Category Enable debug Enable strict tgoing Mail Pn Server Password User Password Verfy Password Return e-mail Server domino.comp Protocol map P	g mode Internet address parsing operties d address operties nay.com			
Category Category Enable debug Enable strict tgoing Mail Pr Server Protocol Smtp J Verfy Password Coming Mail Pr Server domino.comp Protocol imap J User Server	g mode Internet address parsing operties d address operties nay.com			
Category Category Enable debug Enable strict tgoing Mail Pr Server Protocol Server Verify Password Coming Mail Pr Server domino.comp Protocol imap User Protocol imap User ReplyTo	g mode Internet address parsing operties  d address operties  nay.com			
Category Category Enable debug Enable strict ttgoing Mail Pro- Server Protocol mito II Varify Password Varify Password Server domino.comp Protocol imap II Server ReplyTo Password Server	g mode Internet address parsing operties  d address operties  nay.com			
Category Category Enable debug Enable strict tigoing Mail Pr Server Protocol Server Verify Password Verify Password Verify Password Server domino.comp Protocol Imap Protocol Imap Password Verify Password Ve	g mode Internet address parsing sperties d d address s sperties nay.com			
Category Category Enable debug Enable strict tgoing Mail Pre Protocol Server Password Coming Mail Pre Server Coming Mail Pre Server Server Password Imap V User Return e-mail Server Password Password Verfly Passwor Password Verfly Passwor Password Verfly Passwor Password	g mode Internet address parsing sperties d d address s operties nay.com			

Mail Sessions					? -				
Mail Sessions									
Use this page to create mail se useful mail session, an outgoir providers.	essions, which are collections of ag or incoming server and proto	properties that define how your applic col must be provided. Configure mail	ation sends mail and accesses sessions only after you configu	the mail store. To ure the necessary p	o create a protocol				
Scope: Cell=dubxpcvm6030	Cell01								
☑ Show scope selection drop-down list with the all scopes option									
Scope specifies the level at which the resource definition is visible. For detailed information on what scope is and how it works, <u>see the scope settings help.</u>									
Cell=dubxpcvm603Cell01									
😠 Preferences									
New Delete									
Select Name 🗘	JNDI name 🗘	Scope 🗘	Provider 🗘	Description 🗘	Category 🗘				
You can administer the following resources:									
Icnotification	mail/notification	Cell=dubxpcvm603Cell01	Built-in Mail Provider						
□ Icreplyto	mail/replyto	Cell=dubxpcvm603Cell01	Built-in Mail Provider						
Total 2									

#### \_5. Configure news-config.xml for email notifications

Using **wpadmin** checkout the file **news-config.xml**; open the file and search for the section "**mailin**" and make the following changes in blue:

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

Save the file and check it back-in

#### \_6. Sync and Restart Connections

a) from the WAS console
 Sync all Nodes
 Stop all Connections Clusters

- b) Stop and Restart the Deployment Manager
- c) from the WAS console Start all Connections Clusters