

# Installing Lotus Connections v2.0 for Windows



Written by [Jon Mell](#)

**trovus**  
Rewarding dialogue



Please direct all comments and suggestions to [jon.mell@trovus.co.uk](mailto:jon.mell@trovus.co.uk)

Read Jon Mell's blog – <http://jonmell.co.uk>

Find Jon Mell on Facebook [http://www.facebook.com/p/Jon\\_Mell/657095205](http://www.facebook.com/p/Jon_Mell/657095205)

# Contents

Introduction .....	4
Contact Me .....	4
Preamble .....	4
Disclaimer .....	4
Required software.....	5
Base required software.....	5
Additional software required for Profiles .....	6
Additional software required for Active Directory install.....	6
Additional software required for Domino install .....	6
Required Information .....	7
If installing Profiles.....	8
If using Active Directory .....	8
If using Domino .....	8
Set network name.....	8
Install DB2 .....	11
Install DB2 .....	11
Apply DB2 License Key .....	16
Set up LDAP .....	18
Install Active Directory .....	18
Set up a static IP address.....	18
Set up DNS.....	20
Install Active Directory .....	29
Create some users .....	36
Install Domino .....	42
Install Domino Server .....	42
Install Domino Client.....	51
Configure Domino.....	52
Add Organisation Hierarchy.....	63
Install WebSphere Application Server .....	66
Install HTTP Server .....	71
Updating WebSphere Application Server .....	75
Start WebSphere .....	85
Configure WebSphere for Federated Repositories.....	87
Configure WebSphere to manage HTTP Server .....	106
Configure IBM HTTP Server for SSL.....	109
Create databases .....	118
Install Tivoli Directory Integrator .....	121
Install Lotus Connections.....	131

Configure Lotus Connections .....	139
Cache static content .....	139
Configure applications .....	140
Configure Search .....	149
Install SchedulerCalendars .....	152
Create index schedule .....	153
Map virtual hosts .....	155
Generate Plugin .....	156
Configure LotusConnections-config.xml .....	158
Final steps .....	158

## Introduction

A year after IBM released Lotus Connections 1.0, version 2.0 is out and there are lots of new features. According to IBM, it's the fastest growing software product ever released. Trovus was the first organisation to publish a guide to help companies get up and running with v1.0. Since then, IBM has greatly improved the installation procedure for those who want to quickly try out Lotus Connections with the Pilot install. If anyone simply wants to try out the features then we suggest they use this approach.

If, however, a more advanced installation is required, such as for a proof of concept, a test environment or a production system it can still be pretty tricky. By popular demand, we have updated our installation guide to cover Lotus Connections v2. Enjoy, and please let us know about your experiences with Lotus Connections. This guide describes installing everything on a single machine, and is therefore not suited for production environments. However, the principles outlined in this document can be applied to a production environment. We've done our best to highlight where the install will be different for production by use of the word **advanced**.

## Contact Me

I'd love to hear from you about how this can be improved, whether anything needs to be made clearer or whether or not alternative OS's, databases or LDAP directories should be added. If you find any errors (and I'm sure there are some!) then please do let me know and I'll endeavour to correct!

I can be contacted at [jon.mell@trovus.co.uk](mailto:jon.mell@trovus.co.uk) or on Facebook at [http://www.facebook.com/p/Jon\\_Mell/657095205](http://www.facebook.com/p/Jon_Mell/657095205).

You can follow my blog at <http://jonmell.co.uk>

## Preamble

This document is intended to assist those interested in IBM Lotus Connections to get the software up and running on a single Windows machine using either Domino or Active Directory as an LDAP. It is our understanding that you would need to be licensed separately to use Domino. You should note that Active Directory mandates Windows 2003 – XP or Vista won't cut it. Domino works fine on an XP Service Pack 2 environment. Note this document assumes a clean install. It makes changes to your system settings. For this reason it is strongly recommended that you use virtualisation software such as VMWare to protect your machine and the network it sits on from adverse affects.

**Note – due to the availability of Domino I have not included instructions on setting up Tivoli Directory Server as it was a pain. However, if there is demand for it email me and I will see what I can do.**

## Disclaimer

Trovus takes no responsibility for either the material contained within this document or how such material may be interpreted or used

Trovus does not accept liability for anything that may arise from or be said to arise from material contained within this document

Copyright of the material contained within this document shall remain vested in Trovus at all times

This document and the material contained within it may not be reproduced, in whole or in part, except with the consent in writing of Trovus

Any communication with Trovus whether oral or in writing which arises from this document or the material contained within it shall not be deemed to mean that Trovus has taken on any responsibility or liability which has been excluded by virtue of paragraphs 1 and 2.



## Required software

You need to download everything listed in the base required software table.

If you want to install Profiles download the software in the profiles table.

You must then choose which LDAP server to use, Active Directory or Domino and download the software accordingly.

## Base required software

Software	Location																																											
WebSphere Application Server 6.1	Part C87QTML from Passport Advantage																																											
WebSphere Application Server 6.1 Supplements	Part C87PNML from Passport Advantage																																											
Connections 2.0	Part C1F0SIE from Passport Advantage																																											
Connections Database Configuration and Profiles Population Wizards	Part C1HA3IE from Passport Advantage																																											
DB2 9.1 Fix Pack 4	<p><a href="http://www-1.ibm.com/support/docview.wss?rs=71&amp;uid=swg21255394">http://www-1.ibm.com/support/docview.wss?rs=71&amp;uid=swg21255394</a></p> <p>This is actually a full install, so you don't need to download and install another copy of DB2 beforehand. You will apply a license key provided with Connections.</p> <p>Download Fix Pack for DB2 Enterprise Server Edition</p> <table><tr><th>No.</th><th>Description</th><th>DD</th><th>FTP</th><th>Fix Pack Information</th></tr><tr><td>4</td><td>V9.1 Fix Pack 4 for Windows (32 bit)</td><td></td><td></td><td rowspan="8"><b>Note: Flash!</b> IBM response to DB2 Version 9.1 server security vulnerabilities.  PTF number: WR21396 Build level: s071028 Prerequisite: V9.1 GA Signature: 9.1.400.359 Release Date: 13 Nov 2007  Fix List (APARs): <a href="#">html</a>   <a href="#">text</a> <a href="#">System Prerequisites</a>  <a href="#">Readmes (html)</a>  <a href="#">Release Notes (html)</a></td></tr><tr><td></td><td>DB2 Client</td><td></td><td></td></tr><tr><td></td><td>Language Independent</td><td>↓</td><td><a href="#">FTP</a></td></tr><tr><td></td><td>DB2 Connect Personal Edition</td><td></td><td></td></tr><tr><td></td><td>Language Independent</td><td>↓</td><td><a href="#">FTP</a></td></tr><tr><td></td><td>DB2 Connect Server</td><td></td><td></td></tr><tr><td></td><td>Language Independent</td><td>↓</td><td><a href="#">FTP</a></td></tr><tr><td></td><td>DB2 Enterprise Server Edition</td><td></td><td></td></tr><tr><td></td><td>Language Independent</td><td>↓</td><td><a href="#">FTP</a></td><td></td></tr></table>	No.	Description	DD	FTP	Fix Pack Information	4	V9.1 Fix Pack 4 for Windows (32 bit)			<b>Note: Flash!</b> IBM response to DB2 Version 9.1 server security vulnerabilities.  PTF number: WR21396 Build level: s071028 Prerequisite: V9.1 GA Signature: 9.1.400.359 Release Date: 13 Nov 2007  Fix List (APARs): <a href="#">html</a>   <a href="#">text</a> <a href="#">System Prerequisites</a>  <a href="#">Readmes (html)</a>  <a href="#">Release Notes (html)</a>		DB2 Client				Language Independent	↓	<a href="#">FTP</a>		DB2 Connect Personal Edition				Language Independent	↓	<a href="#">FTP</a>		DB2 Connect Server				Language Independent	↓	<a href="#">FTP</a>		DB2 Enterprise Server Edition				Language Independent	↓	<a href="#">FTP</a>	
No.	Description	DD	FTP	Fix Pack Information																																								
4	V9.1 Fix Pack 4 for Windows (32 bit)			<b>Note: Flash!</b> IBM response to DB2 Version 9.1 server security vulnerabilities.  PTF number: WR21396 Build level: s071028 Prerequisite: V9.1 GA Signature: 9.1.400.359 Release Date: 13 Nov 2007  Fix List (APARs): <a href="#">html</a>   <a href="#">text</a> <a href="#">System Prerequisites</a>  <a href="#">Readmes (html)</a>  <a href="#">Release Notes (html)</a>																																								
	DB2 Client																																											
	Language Independent	↓	<a href="#">FTP</a>																																									
	DB2 Connect Personal Edition																																											
	Language Independent	↓	<a href="#">FTP</a>																																									
	DB2 Connect Server																																											
	Language Independent	↓	<a href="#">FTP</a>																																									
	DB2 Enterprise Server Edition																																											
	Language Independent	↓	<a href="#">FTP</a>																																									
WebSphere Application Server 6.1 Updater	<p><a href="http://www-1.ibm.com/support/docview.wss?rs=180&amp;uid=swg24012718">http://www-1.ibm.com/support/docview.wss?rs=180&amp;uid=swg24012718</a></p> <p>(download the Windows package – download.upddi.61017.windows.ia32.zip)</p> <p>Note that 61017 may change as IBM release future versions</p>																																											
WebSphere Application Server 6.1 Fixpack 13	<p><a href="http://www-1.ibm.com/support/docview.wss?rs=180&amp;uid=swg24017334">http://www-1.ibm.com/support/docview.wss?rs=180&amp;uid=swg24017334</a></p> <p>Download these files (you don't need to download the update installer requisite as we are downloading above):</p> <p>32-bit x86 AMD/Intel AppServer 6.1.0-WS-WAS-WinX32-FP0000013.pak</p> <p>32-bit x86 AMD/Intel Plug-ins 6.1.0-WS-PLG-WinX32-FP0000013.pak</p> <p>32-bit x86 AMD/Intel HTTP Svr 6.1.0-WS-IHS-WinX32-FP0000013.pak</p>																																											
6.1.0.11-WS-WAS-IFPK60528.pak	<p><a href="http://www-1.ibm.com/support/docview.wss?uid=swg24019122">http://www-1.ibm.com/support/docview.wss?uid=swg24019122</a></p>																																											

## Additional software required for Profiles

Software	Location
Windows 2003 install disk or image	Microsoft or provided with server

## Additional software required for Active Directory install

Software	Location
Tivoli Directory Integrator 6.1.1	Part C9666ML from Passport Advantage
Tivoli Directory Integrator Fix Pack 3	<a href="http://www-1.ibm.com/support/docview.wss?rs=697&amp;context=SSCQGF&amp;uid=swg27010509#ver611">http://www-1.ibm.com/support/docview.wss?rs=697&amp;context=SSCQGF&amp;uid=swg27010509#ver611</a>

## Additional software required for Domino install

Note if you wish to use an earlier supported version of Domino (7.0.2 or 8.0) you can probably get by with these instructions

Software	Location
Notes 8.0.1 client	Part C19U0EN from Passport Advantage
Domino 8.0.1 server	Part C18XPEN from Passport Advantage

## Required Information

You will need the following information. It is useful to print this sheet out and refer to it during the installation. Where these tags appear in the document they need to be replaced with your values. If in doubt use the sample values in this document.

Name	Description	Value
<wasadminuser>	Administrative userid to use for the WebSphere console – eg wasadmin	
<wasadminpwd>	Password for <wasadmin> 0 eg wasadmin	
<winadminuser>	Administrator user id for Windows 2003 – eg Administrator	
<winadminpwd>	Password for <winadminuser>	
<hostname>	Computer hostname – eg connections	
<domain>	Network domain for computer – eg trovus.co.uk	
<fullyqualifiedname>	Fully qualified hostname of computer <hostname>.<domain> - eg connections.trovus.co.uk	
<db2install>	Location of your DB2 installation - - eg C:\SQLLIB	
<db2user>	Windows 2003 DB2 username – eg db2admin	
<db2pwd>	Password for <db2user>	
<wasinstall>	Location of your WebSphere installation – eg C:\WebSphere\AppServer	
<httpinstall>	Location of your HTTP Server – eg C:\HTTPServer	
<httpuser>	Username to administer HTTP server – eg httpadmin	
<httppwd>	Password for <httpuser>	
<connectionsserver>	The name of the WebSphere Application Server instance used to install connections	
<connectionsadmin>	The URL to administer <connectionsserver>	Provided by Connections installer
<connectionshome>	The URL to the Connections homepage	Provided by Connections installer

## If installing Profiles

<tdiinstall>	Installation directory for Tivoli Directory Server – eg c:\TDI	
<tdisol>	A subdirectory of your choosing under <tdiinstall> where you will extract TDISOL.zip from the Lotus Connections install media	

## If using Active Directory

<ipaddress>	Your current IP address	
<subnet>	Your current subnet mask	
<gateway>	Your current TCP/IP gateway	
<dns>	Your current DNS servers	

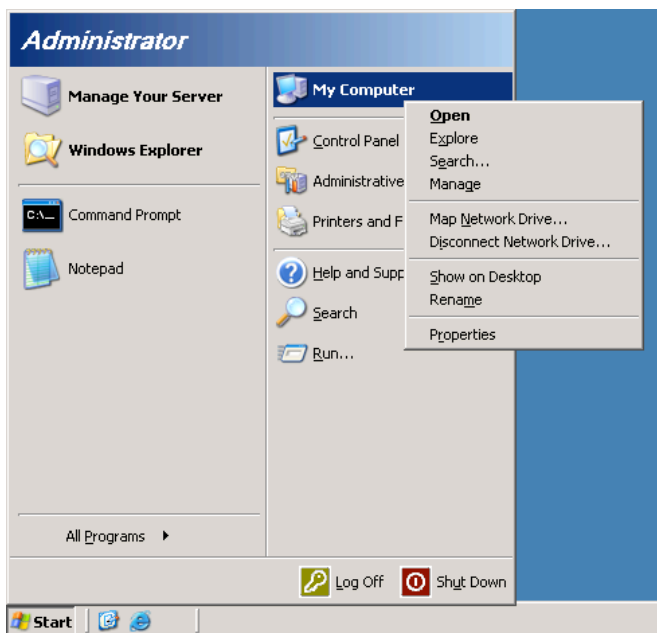
## If using Domino

<domnioadmin>	Domino administrator	
<dominopwd>	Password for <domnioadmin>	
<orgname>	Domino organisation name – eg Trovus	
<orgpwd>	Certifier password used to register users in Domino	
<dominoinstall>	Install directory for Domino	
<dominodata>	Data subdirectory for Domino	

## Set network name

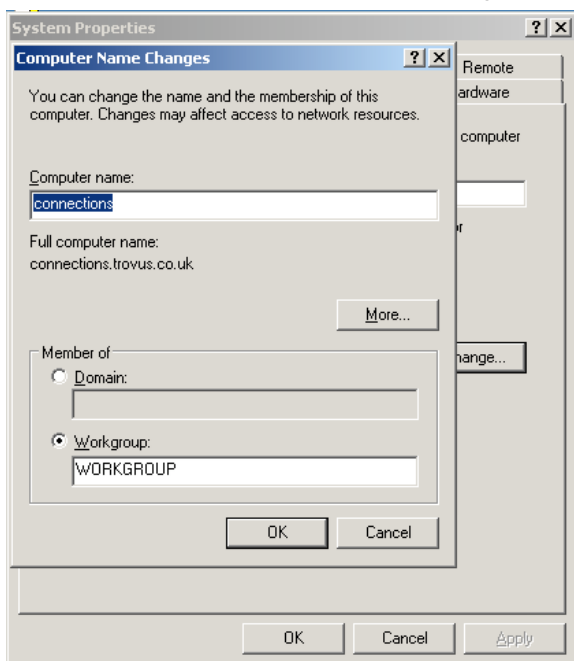
Log into a clean installation of Windows as the Administrator.

You must set up a computer name and domain before starting. Localhost will not work. To do this right click on My Computer and click Properties

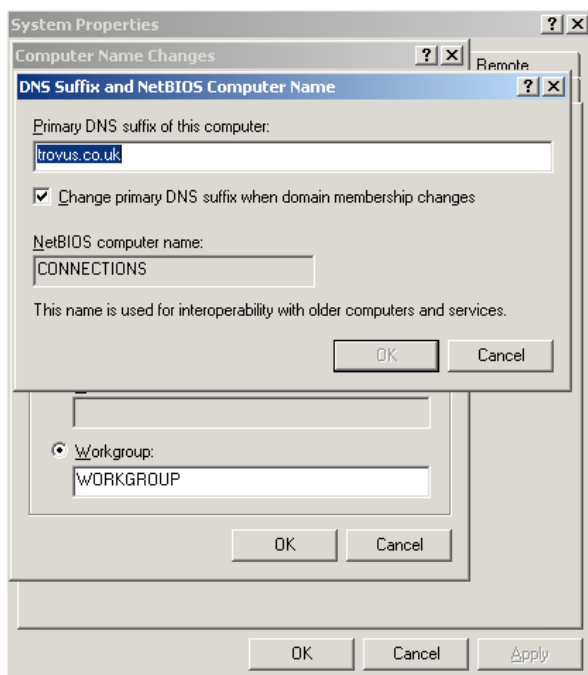


Click the Computer Name tab and press Change

Under computer name enter <hostname> - eg connections

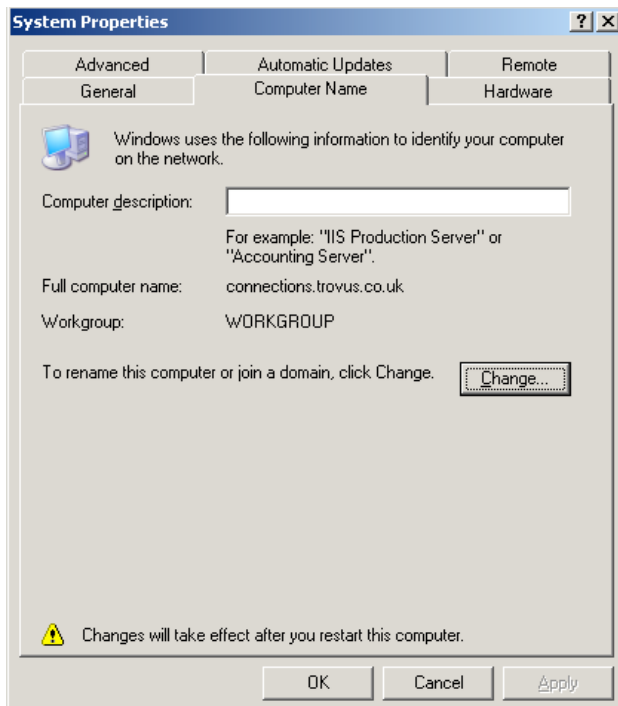


Click more – and now enter <domain> eg – trovus.co.uk. **Do not** leave this blank and **do not** include <hostname>.



**Advanced:** if installing over multiple machines in a production environment this step must be performed on all machines.

Press OK and OK again and you should be back at the Computer name tab showing your full hostname and domain name. This should be the same as *<fullyqualifiedname>*.



Press OK and you will need to restart your machine.

## Install DB2

## Install DB2

Extract the media from `v9fp4_win_ese.exe`

Run `setup.exe` from the DB2 media.

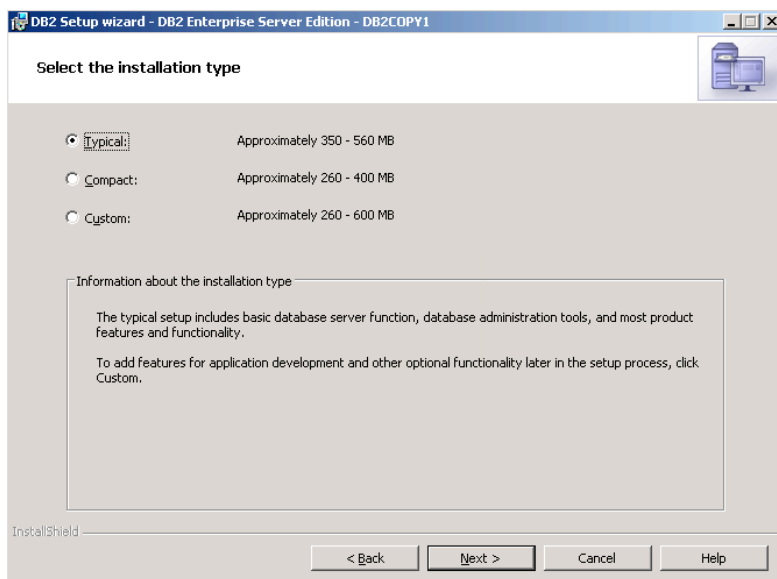
From the DB2 Setup Launchpad click "Install a Product" from the left hand side.

Under DB2 Enterprise Server Edition click "Install New".

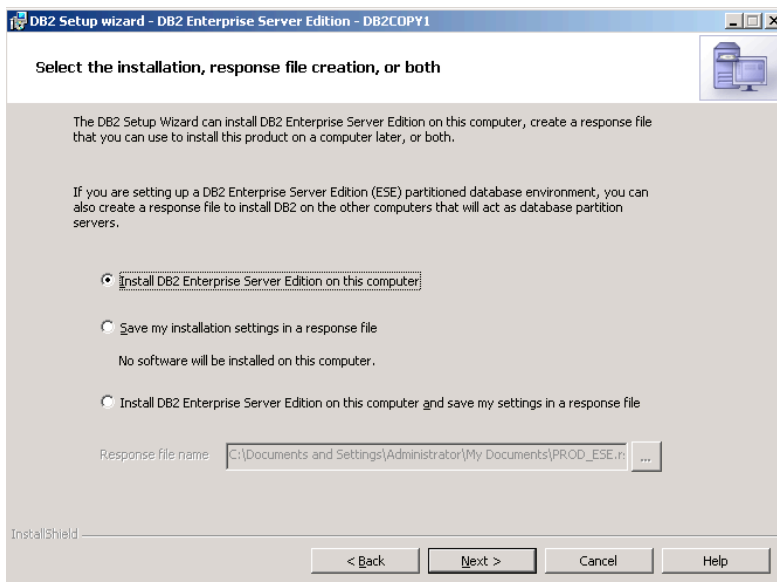
The install wizard will now launch. Click Next on the Welcome screen.

Accept the license terms and click next.

Keep Typical installation type selected and click next.



Click Install DB2 Enterprise Server Edition on this computer and press next.



I tend to change the install directory to something more using friendly – change it if you like and press next. This value is `<db2install>`.



On Set user information set Domain to “None – use local account” and enter values you chose for your DB2 user (<db2user> and <db2pwd>). These users do not have to exist. Ensure that the check box to use the same user name and password for the remaining DB2 services is selected. Click next

DB2 Setup wizard - DB2 Enterprise Server Edition - DB2COPY1

Set user information for the DB2 Administration Server

The DB2 Administration Server (DAS) runs on your computer to provide support required by the DB2 tools. Specify the required user information for the DAS.

User information

Domain: None - use local user account

User name: db2admin

Password: \*\*\*\*\*

Confirm password: \*\*\*\*\*

☒ Use the same user name and password for the remaining DB2 services

InstallShield

< Back Next > Cancel Help

On configure DB2 instances click next

DB2 Setup wizard - DB2 Enterprise Server Edition - DB2COPY1

Configure DB2 instances

The following instances will be created during installation. You can customize the configurations by clicking on the Configure button.

DB2 Instances:

DB2

Configure...

Instance description

The default instance, DB2, stores application data.

You can build a partitioned database environment by installing DB2 Enterprise Server Edition on other computers, and specify that these computers participate in the default instance.

InstallShield

< Back Next > Cancel Help

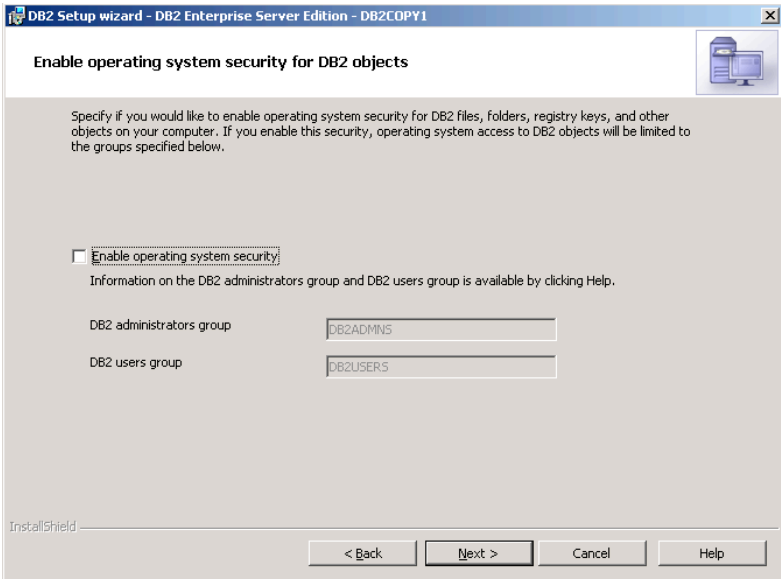
Leave Prepare the DB2 tools catalog unselected and press next

The screenshot shows the 'Prepare the DB2 tools catalog' window of the DB2 Setup wizard. The title bar reads 'DB2 Setup wizard - DB2 Enterprise Server Edition - DB2COPY1'. The window has a header 'Prepare the DB2 tools catalog' and a sub-header explaining that certain DB2 tools require a catalog. A checkbox labeled 'Prepare the DB2 tools catalog' is unselected. Below it, there are fields for 'Instance' (set to 'DB2'), 'Database' (with 'New' selected and 'TOOLSDB' entered), and 'Schema' (with 'New' selected and 'SYSTOOLS' entered). At the bottom, there are buttons for '< Back', 'Next >', 'Cancel', and 'Help'.

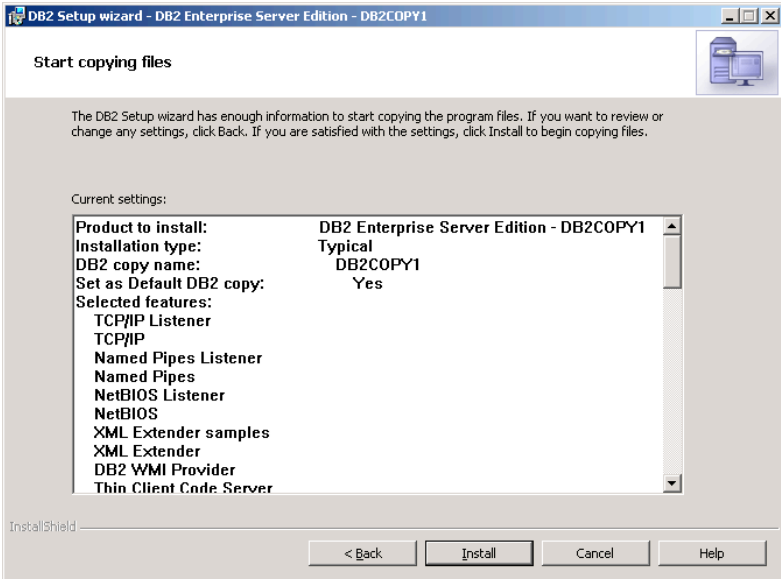
Deselect Set up your DB2 server to send notifications and press next

The screenshot shows the 'Set up notifications' window of the DB2 Setup wizard. The title bar reads 'DB2 Setup wizard - DB2 Enterprise Server Edition - DB2COPY1'. The window has a header 'Set up notifications' and a sub-header explaining that users can set up email or pager notifications. A checkbox labeled 'Set up your DB2 server to send notifications' is unselected. Below it, there is a field for 'Notification SMTP server'. A section titled 'Administration contact list location' contains two radio buttons: 'Local - Create a contact list on this computer' (selected) and 'Remote - Use an existing contact list on another DB2 server'. Below the radio buttons is a field for 'Remote DB2 server'. At the bottom, there are buttons for '< Back', 'Next >', 'Cancel', and 'Help'.

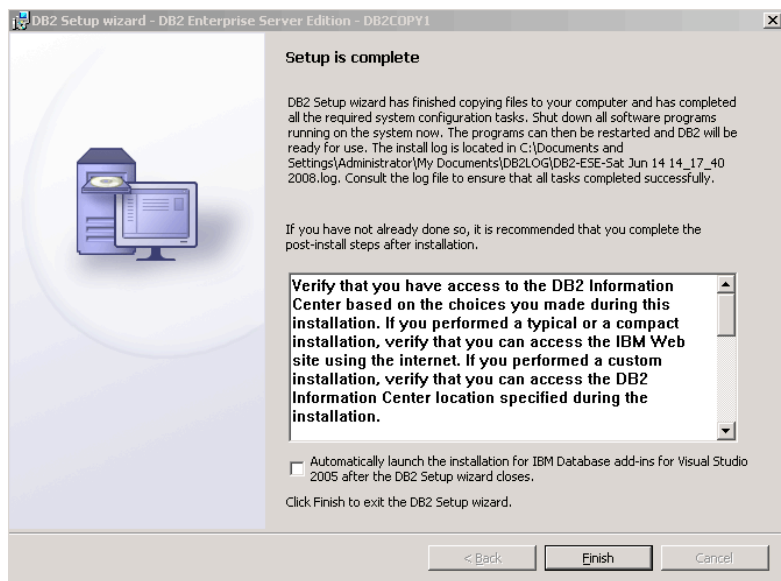
Deselect Enable operating system security for DB2 objects and click next.



On the summary screen click install



On a successful install you should see this screen. Click Finish.

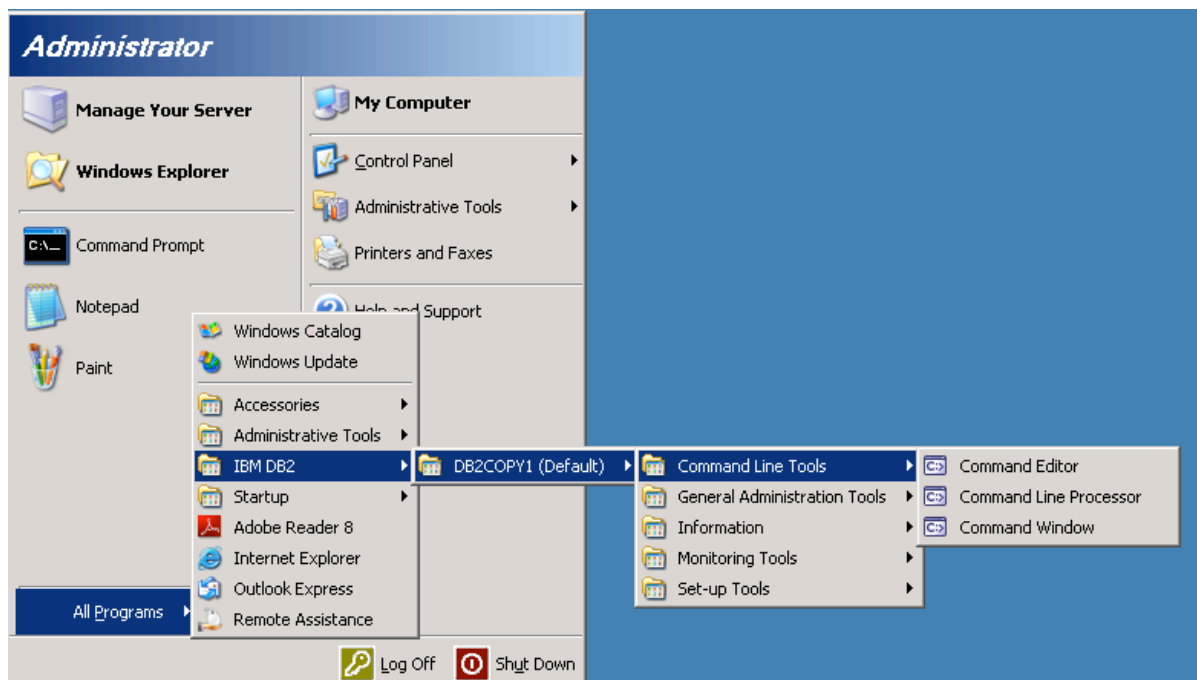


From the DB2 First Steps screen that launches you can test your install if you wish by clicking the Database Creation on the left hand side and click Create SAMPLE Database. Exit the First Steps screen when done.

## Apply DB2 License Key

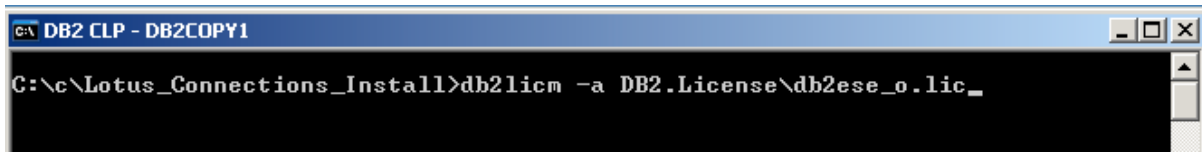
You are licensed to use DB2 as part of Lotus Connections. This step licenses DB2 to be used exclusively with Lotus Connections. If you have licensed DB2 separately, you should not perform this step, and consult whoever in your organisation is responsible for DB2 licensing.

Click Start -> IBM DB2 -> DB2COPY1 (Default) -> Command Line Tools -> Command Window



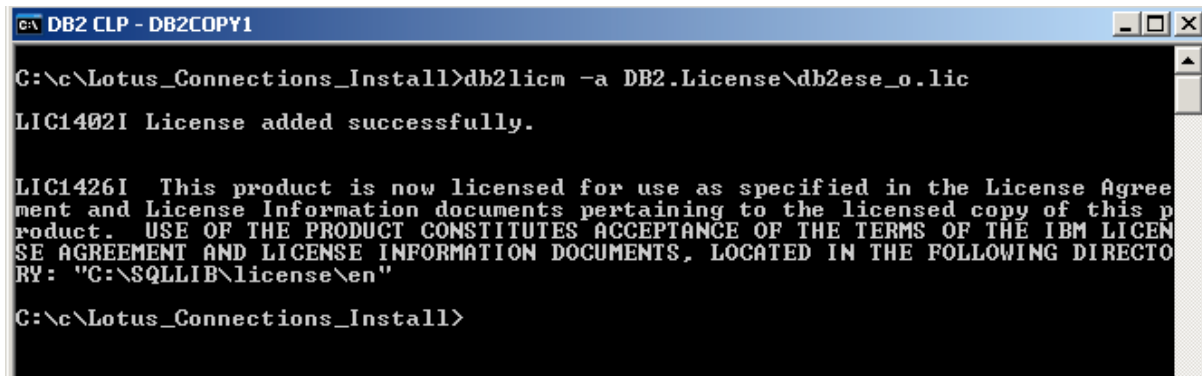
Navigate to the Lotus\_Connections\_Install directory on the Connections 2.0 media (part C1F0SIE from Passport Advantage).

From the Lotus\_Connections\_Install directory type db2licm -a DB2.License\db2ese\_o.lic



```
C:\c\Lotus_Connections_Install>db2licm -a DB2.License\db2ese_o.lic_
```

You should get the following successful result



```
C:\c\Lotus_Connections_Install>db2licm -a DB2.License\db2ese_o.lic
LIC1402I License added successfully.

LIC1426I This product is now licensed for use as specified in the License Agree
ment and License Information documents pertaining to the licensed copy of this p
roduct.  USE OF THE PRODUCT CONSTITUTES ACCEPTANCE OF THE TERMS OF THE IBM LICEN
SE AGREEMENT AND LICENSE INFORMATION DOCUMENTS, LOCATED IN THE FOLLOWING DIRECTO
RY: "C:\SQLLIB\license\en"

C:\c\Lotus_Connections_Install>
```

## Set up LDAP

Choose either to install Active Directory or Domino

## Install Active Directory

Note this section changes your network settings and sets a static IP address. Use VMWare if in any doubt. You may need your Windows 2003 media for this step.

### Set up a static IP address

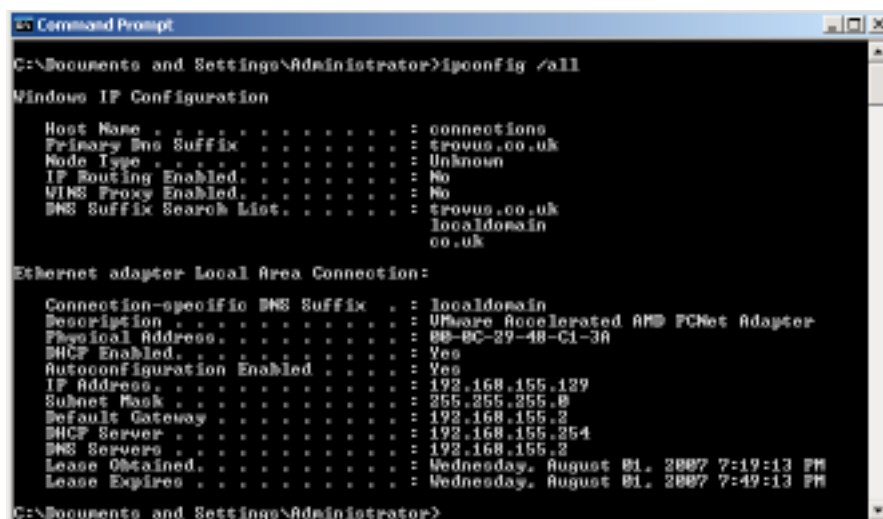
From a command prompt run `ipconfig /all` and make a note of the following information:

IP Address – note this as *<ipaddress>*

Subnet mask – note this as *<subnet>*

Default gateway – note this as *<gateway>*

DNS Servers – note this as *<dns>*



```
C:\Documents and Settings\Administrator>ipconfig /all

Windows IP Configuration

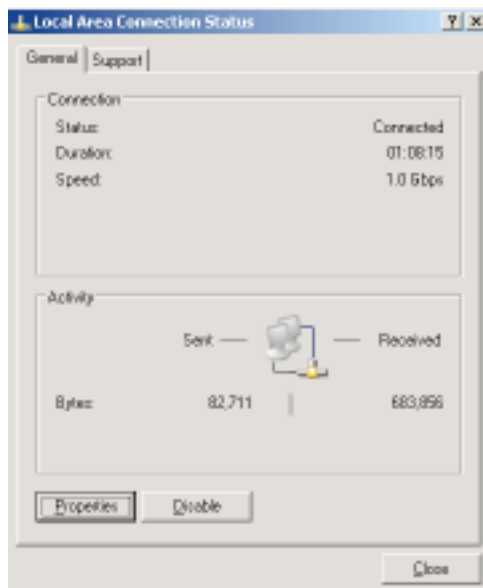
Host Name . . . . . : connections
Primary Dns Suffix . . . . . : trovus.co.uk
Node Type . . . . . : Unknown
IP Routing Enabled. . . . . : No
WINS Proxy Enabled. . . . . : No
DNS Suffix Search List. . . . . : trovus.co.uk
                                localdomain
                                co.uk

Ethernet adapter Local Area Connection:

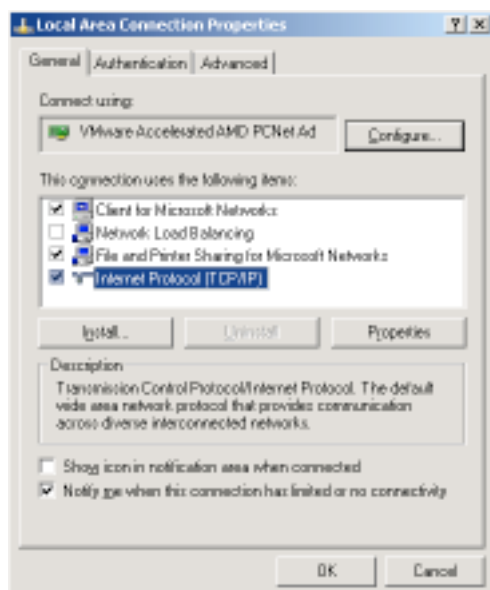
    Connection-specific DNS Suffix  . : localdomain
    Description . . . . . : VMware Accelerated AMD PCNet Adapter
    Physical Address. . . . . : 8B-BC-27-48-C1-3A
    DHCP Enabled. . . . . : Yes
    Autoconfiguration Enabled . . . . : Yes
    IP Address. . . . . : 192.168.155.129
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : 192.168.155.2
    DHCP Server . . . . . : 192.168.155.254
    DNS Servers . . . . . : 192.168.155.2
    Lease Obtained. . . . . : Wednesday, August 81, 2007 7:19:13 PM
    Lease Expires . . . . . : Wednesday, August 81, 2007 7:49:13 PM

C:\Documents and Settings\Administrator>
```

Click Start -> Control Panel -> Network Connections -> Local Area Connection



Click Properties



Click Internet Protocol (TCP/IP) and click Properties.

Click the "Use the following IP address" radio button and the "Use the following DNS Server addresses" radio button

Enter:

IP Address with *<ipaddress>*

Subnet mask with *<subnet>*

Default gateway *<gateway>*

DNS *<ipaddress>*

**Do not** fill in the DNS Server with *<dns>*. Instead this should be *<ipaddress>*.



Press OK then press Close.

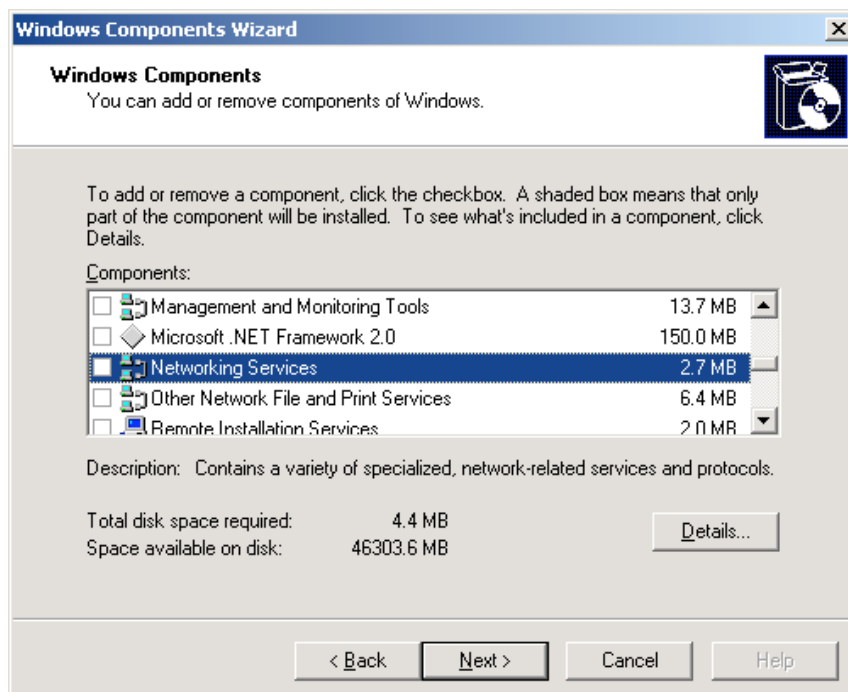
## Set up DNS

Active Directory requires you to have a Domain Name Server (DNS) service running on your machine.

Click Start -> Control Panel -> Add or Remove Programs

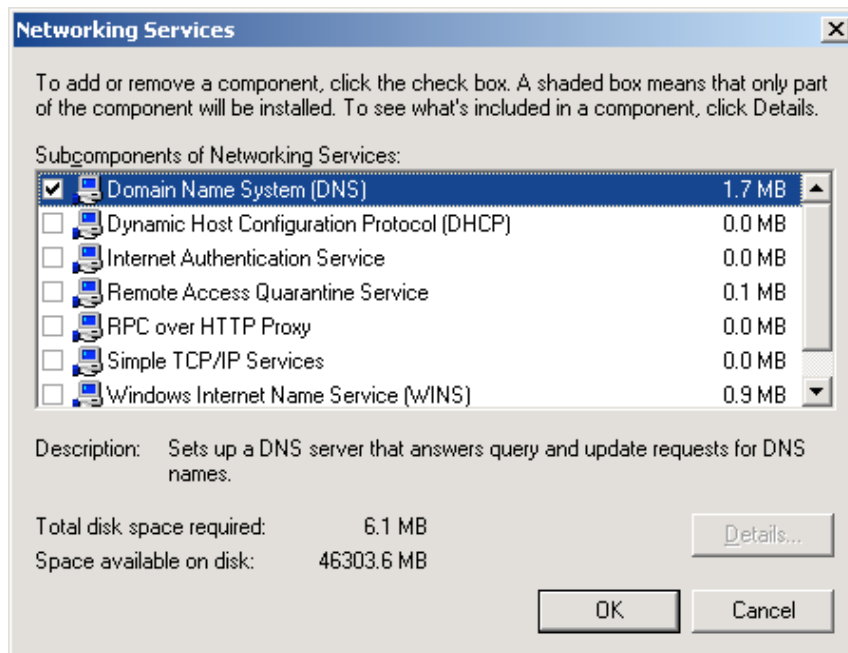
On the left hand side click Add/Remove Windows Components

Select Networking Services and press Details

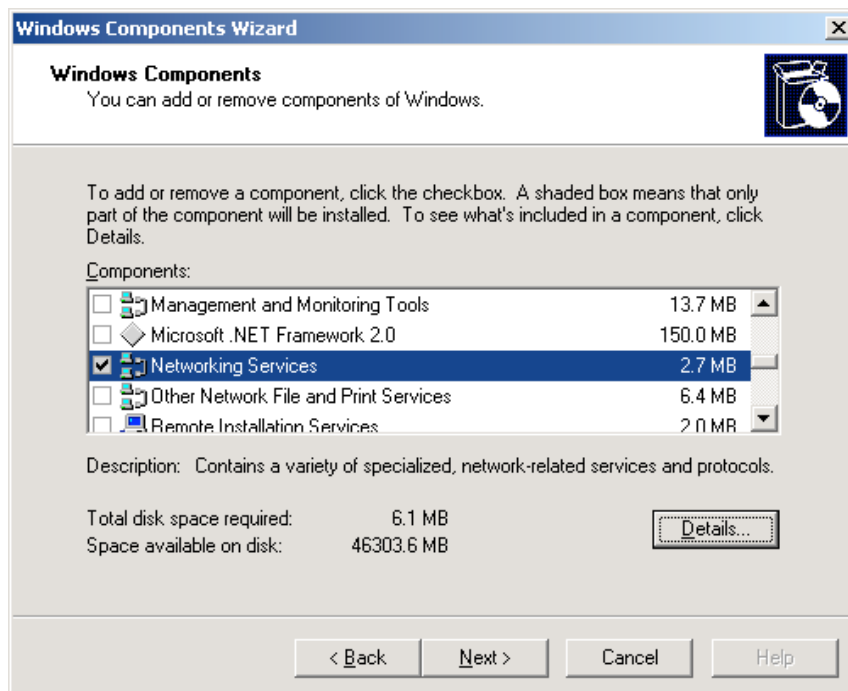




Select Domain Name System (DNS) and press OK



Networking services should now have a grey checked box. Press Next. Set up may require you to enter the location of your Windows 2003 media or install image during this step.

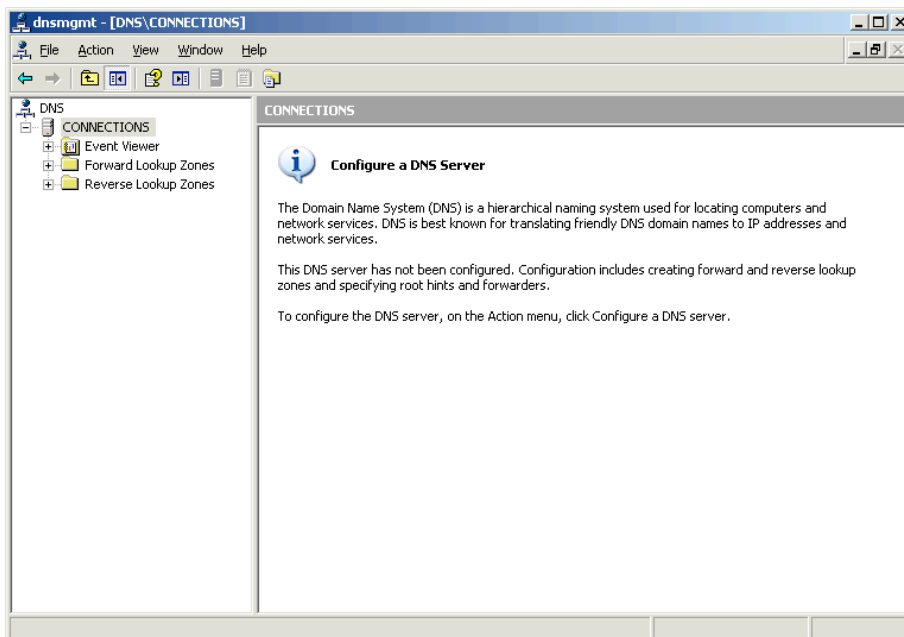


After a few moments you should see a successful completion screen. Press Finish



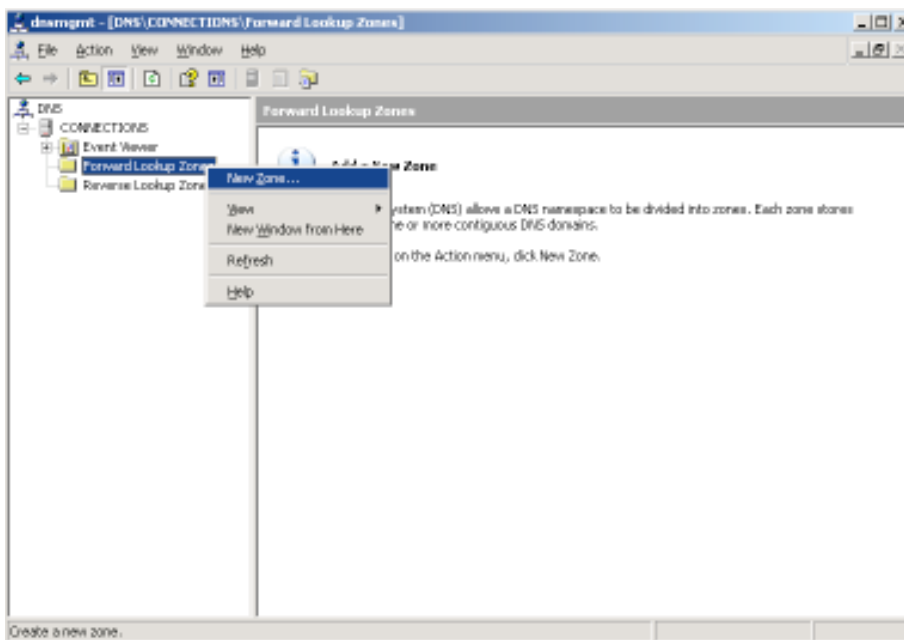
Close Add or Remove Programs.

Click Start -> Administrative Tools -> DNS



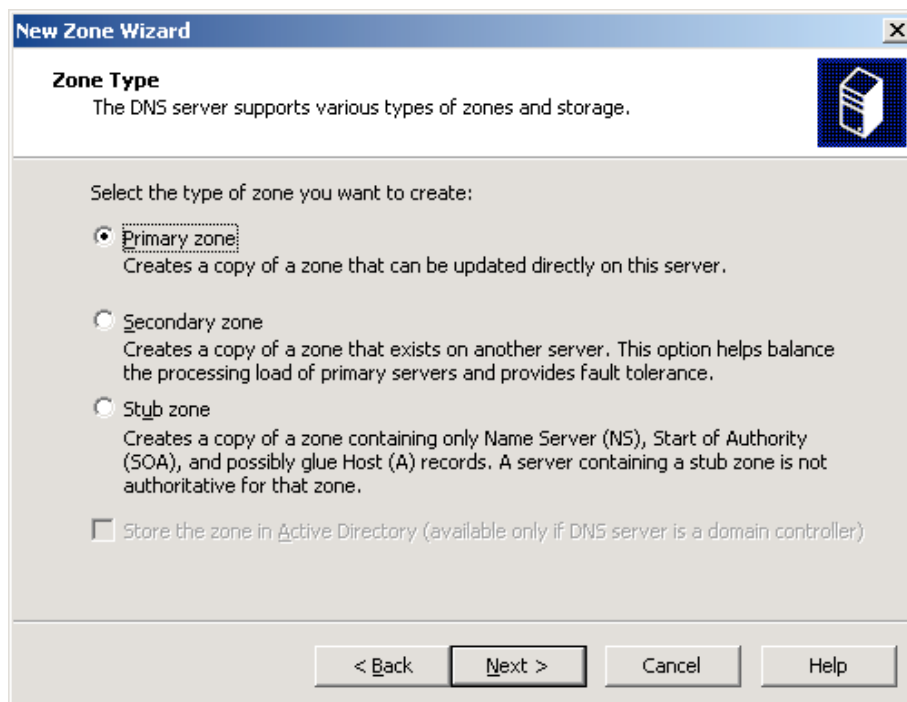
Left click Forward Lookup Zones.

Right click Forward Lookup Zones and click New Zone...



Click next on the welcome screen of the New Zone wizard.

On the Zone Type screen keep Primary Zone selected and press next.



The screenshot shows the 'New Zone Wizard' window, specifically the 'Zone Type' step. The title bar reads 'New Zone Wizard'. Below the title bar, the section is titled 'Zone Type' with a subtitle 'The DNS server supports various types of zones and storage.' To the right of the text is a server icon. The main area contains the instruction 'Select the type of zone you want to create:' followed by three radio button options: 'Primary zone' (selected), 'Secondary zone', and 'Stub zone'. Each option has a descriptive text block below it. At the bottom of the main area is a checkbox labeled 'Store the zone in Active Directory (available only if DNS server is a domain controller)'. The bottom of the window features four buttons: '< Back', 'Next >', 'Cancel', and 'Help'.

**New Zone Wizard**

**Zone Type**  
The DNS server supports various types of zones and storage.

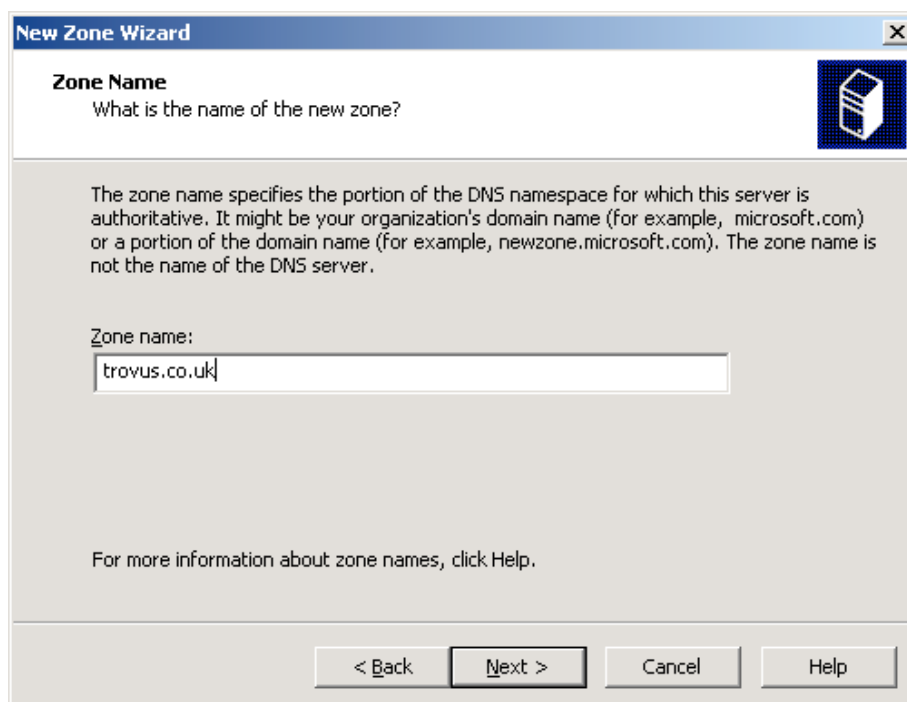
Select the type of zone you want to create:

- ☒ **Primary zone**  
Creates a copy of a zone that can be updated directly on this server.
- ☐ **Secondary zone**  
Creates a copy of a zone that exists on another server. This option helps balance the processing load of primary servers and provides fault tolerance.
- ☐ **Stub zone**  
Creates a copy of a zone containing only Name Server (NS), Start of Authority (SOA), and possibly glue Host (A) records. A server containing a stub zone is not authoritative for that zone.

☐ Store the zone in Active Directory (available only if DNS server is a domain controller)

< Back   Next >   Cancel   Help

In Zone name enter *<domain>*. This should just be the domain name (eg trovus.co.uk) and not include the hostname. Click Next.



The screenshot shows the 'New Zone Wizard' window, specifically the 'Zone Name' step. The title bar reads 'New Zone Wizard'. Below the title bar, the section is titled 'Zone Name' with a subtitle 'What is the name of the new zone?' To the right of the text is a server icon. The main area contains a paragraph explaining that the zone name specifies the portion of the DNS namespace for which this server is authoritative. Below this is a text input field labeled 'Zone name:' containing the text 'trovus.co.uk'. At the bottom of the main area is a line of text: 'For more information about zone names, click Help.' The bottom of the window features four buttons: '< Back', 'Next >', 'Cancel', and 'Help'.

**New Zone Wizard**

**Zone Name**  
What is the name of the new zone?

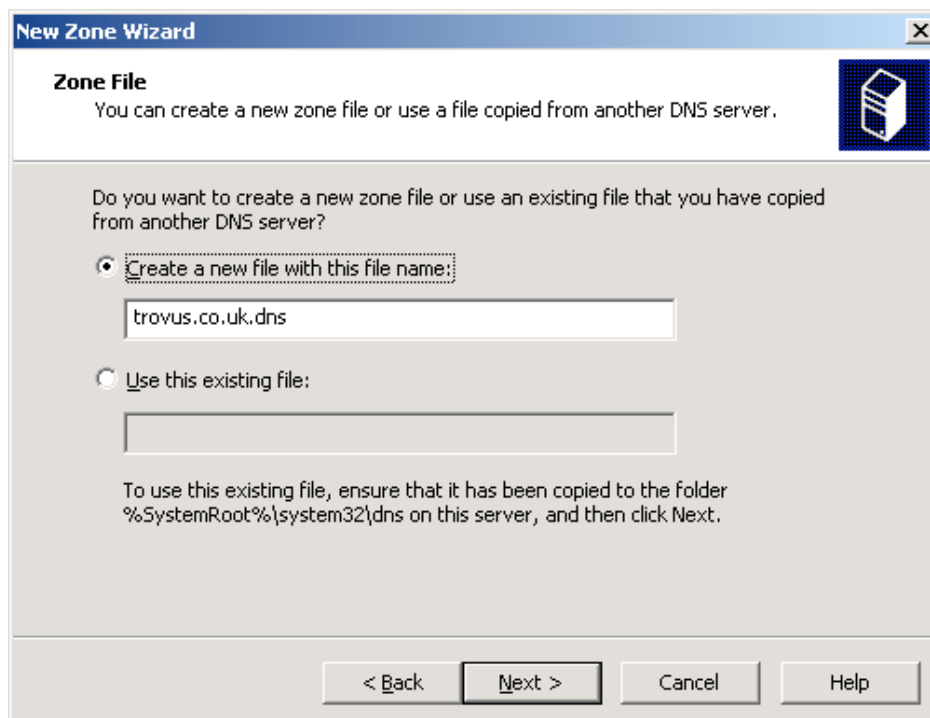
The zone name specifies the portion of the DNS namespace for which this server is authoritative. It might be your organization's domain name (for example, microsoft.com) or a portion of the domain name (for example, newzone.microsoft.com). The zone name is not the name of the DNS server.

Zone name:  
trovus.co.uk

For more information about zone names, click Help.

< Back   Next >   Cancel   Help

Leave the Zone file settings as the default and press Next



The screenshot shows the 'New Zone Wizard' window with the 'Zone File' tab selected. The window title is 'New Zone Wizard'. The tab is 'Zone File'. The text says: 'You can create a new zone file or use a file copied from another DNS server.' Below this, it asks: 'Do you want to create a new zone file or use an existing file that you have copied from another DNS server?'. There are two radio buttons. The first is selected and labeled 'Create a new file with this file name:'. Below it is a text box containing 'trovus.co.uk.dns'. The second radio button is labeled 'Use this existing file:'. Below it is an empty text box. At the bottom, there is a note: 'To use this existing file, ensure that it has been copied to the folder %SystemRoot%\system32\dns on this server, and then click Next.' At the bottom of the window are four buttons: '< Back', 'Next >', 'Cancel', and 'Help'.

**Zone File**

You can create a new zone file or use a file copied from another DNS server.

Do you want to create a new zone file or use an existing file that you have copied from another DNS server?

☒ Create a new file with this file name:

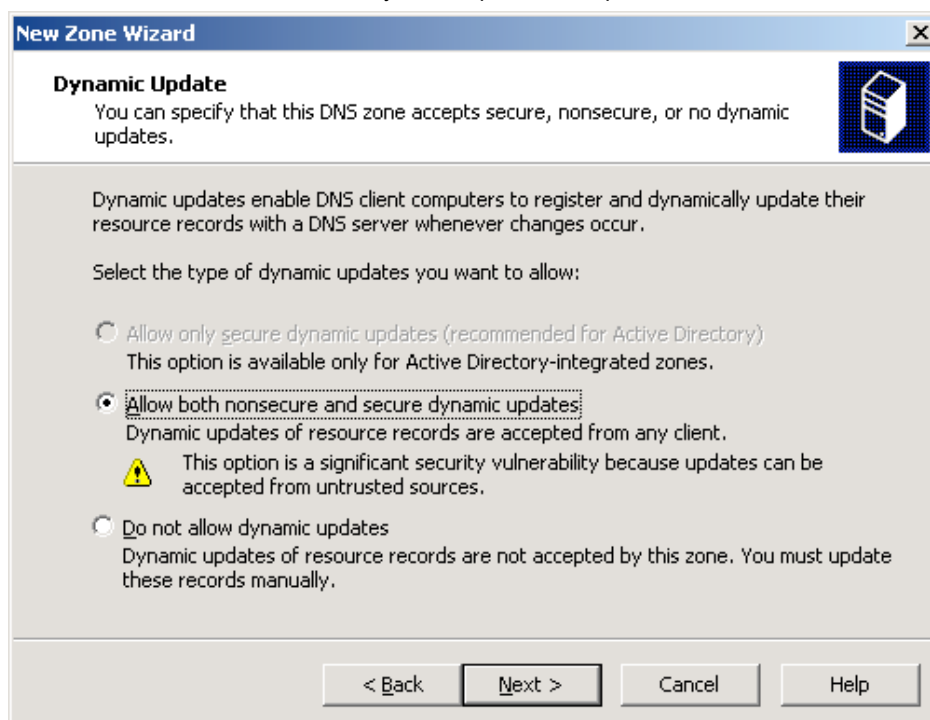
trovus.co.uk.dns

☐ Use this existing file:

To use this existing file, ensure that it has been copied to the folder %SystemRoot%\system32\dns on this server, and then click Next.

< Back Next > Cancel Help

Allow both nonsecure and secure dynamic updates and press Next



The screenshot shows the 'New Zone Wizard' window with the 'Dynamic Update' tab selected. The window title is 'New Zone Wizard'. The tab is 'Dynamic Update'. The text says: 'You can specify that this DNS zone accepts secure, nonsecure, or no dynamic updates.' Below this, it says: 'Dynamic updates enable DNS client computers to register and dynamically update their resource records with a DNS server whenever changes occur.' Then it asks: 'Select the type of dynamic updates you want to allow:'. There are three radio buttons. The first is 'Allow only secure dynamic updates (recommended for Active Directory)' with a note 'This option is available only for Active Directory-integrated zones.' The second is selected and labeled 'Allow both nonsecure and secure dynamic updates:'. Below it is a note with a warning icon: 'Dynamic updates of resource records are accepted from any client. This option is a significant security vulnerability because updates can be accepted from untrusted sources.' The third is 'Do not allow dynamic updates' with a note 'Dynamic updates of resource records are not accepted by this zone. You must update these records manually.' At the bottom of the window are four buttons: '< Back', 'Next >', 'Cancel', and 'Help'.


**Dynamic Update**

You can specify that this DNS zone accepts secure, nonsecure, or no dynamic updates.

Dynamic updates enable DNS client computers to register and dynamically update their resource records with a DNS server whenever changes occur.

Select the type of dynamic updates you want to allow:

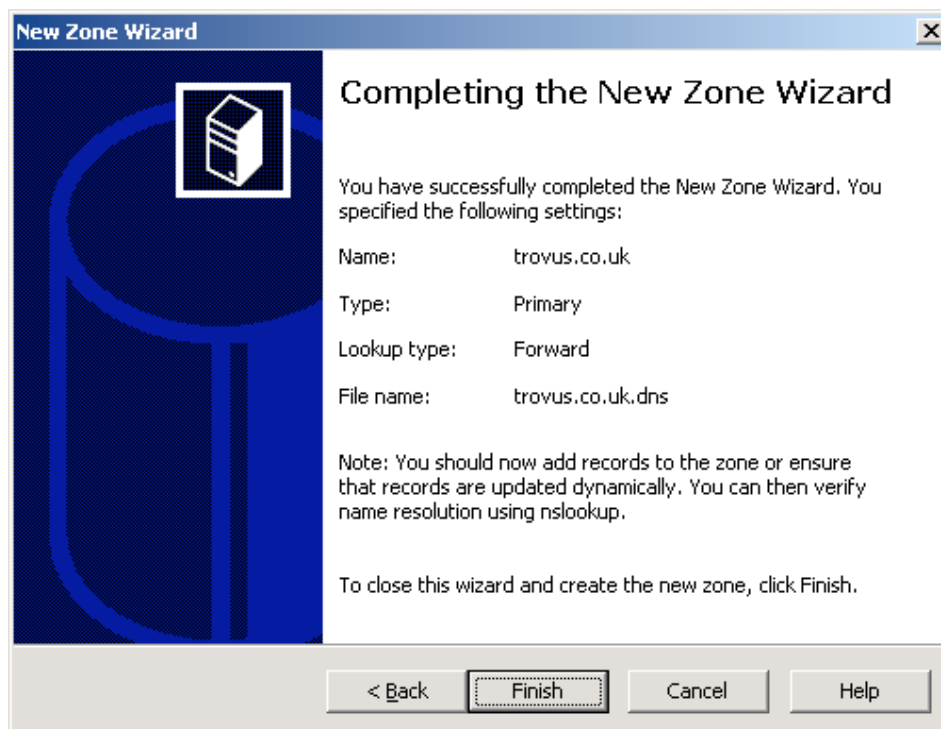
☐ Allow only secure dynamic updates (recommended for Active Directory)  
This option is available only for Active Directory-integrated zones.

☒ Allow both nonsecure and secure dynamic updates:  
Dynamic updates of resource records are accepted from any client.  
 This option is a significant security vulnerability because updates can be accepted from untrusted sources.

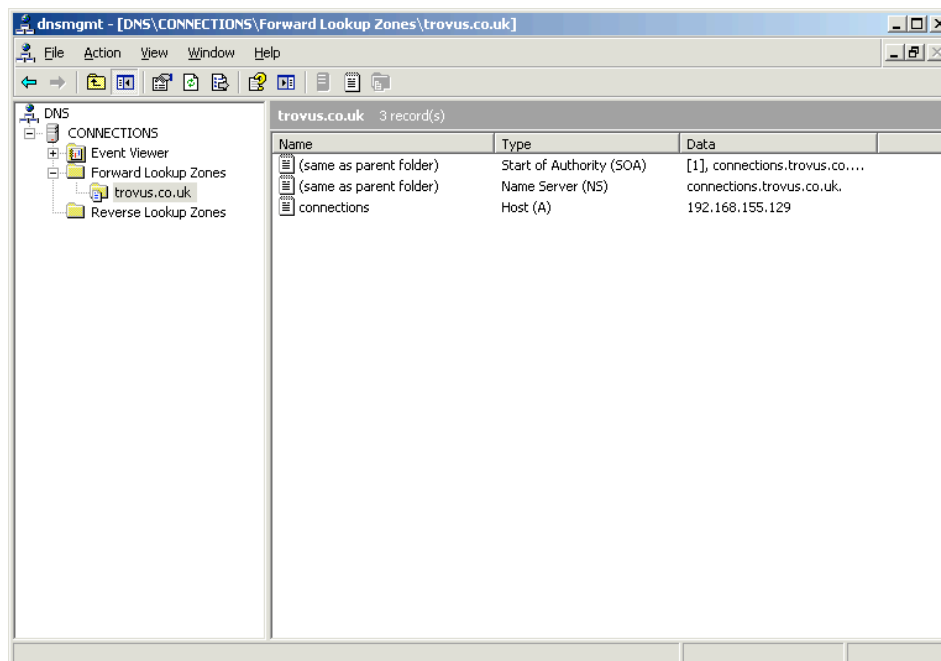
☐ Do not allow dynamic updates  
Dynamic updates of resource records are not accepted by this zone. You must update these records manually.

< Back Next > Cancel Help

On the summary screen press Finish



You should have a zone created that looks like the following:



If you want to enable your machine to use a 'real' DNS server (it won't be able to access the internet unless you do) then right click on your server (eg CONNECTIONS) on the left hand tree and click properties. Click the Forwarders tab on the properties screen.

The screenshot shows the 'CONNECTIONS Properties' dialog box with the 'Forwarders' tab selected. The dialog has a title bar with a question mark and a close button. Below the title bar are four tabs: 'Debug Logging', 'Event Logging', 'Monitoring', and 'Forwarders'. The 'Forwarders' tab is active, showing a list of DNS domains for forwarding. The first domain is 'All other DNS domains'. To the right of the list are 'New...' and 'Remove' buttons. Below the list, there is a text box for the forwarder's IP address, an 'Add' button, and a list of selected forwarders. To the right of the list are 'Remove', 'Up', and 'Down' buttons. At the bottom, there is a 'Number of seconds before forward queries time out:' field set to '5', and a checkbox for 'Do not use recursion for this domain'. The dialog has 'OK', 'Cancel', and 'Apply' buttons at the bottom.

**CONNECTIONS Properties** ? X

Debug Logging | Event Logging | Monitoring  
Interfaces | **Forwarders** | Advanced | Root Hints

Forwarders are servers that can resolve DNS queries not answered by this server. Forward queries for names in the following DNS domains.

DNS domain:

All other DNS domains	New...
	Remove

To add a forwarder, select a DNS domain, type the forwarder's IP address below, and then click Add.

Selected domain's forwarder IP address list:

. . .	Add
	Remove
	Up
	Down

Number of seconds before forward queries time out: 5

☐ Do not use recursion for this domain

OK Cancel Apply

Enter <dns> in the Selected domain's forwarder IP address list box and press Add

The screenshot shows the 'CONNECTIONS Properties' dialog box with the 'Forwarders' tab selected. The dialog has a title bar with a question mark and a close button. Below the title bar are four tabs: 'Debug Logging', 'Event Logging', 'Monitoring', and 'Forwarders'. The 'Forwarders' tab is active, showing a text area with the text 'Forwarders are servers that can resolve DNS queries not answered by this server. Forward queries for names in the following DNS domains.' Below this is a section labeled 'DNS domain:' with a list box containing 'All other DNS domains'. To the right of the list box are 'New...' and 'Remove' buttons. Below the list box is a text area with the text 'To add a forwarder, select a DNS domain, type the forwarder's IP address below, and then click Add.' Below this is a section labeled 'Selected domain's forwarder IP address list:' with a list box containing '192.168.155.2'. To the right of the list box are 'Add', 'Remove', 'Up', and 'Down' buttons. Below the list box is a text area with the text 'Number of seconds before forward queries time out:' and a spin box set to '5'. Below the spin box is a checkbox labeled 'Do not use recursion for this domain'. At the bottom of the dialog are 'OK', 'Cancel', and 'Apply' buttons.

**CONNECTIONS Properties** ? X

Debug Logging | Event Logging | Monitoring  
Interfaces | **Forwarders** | Advanced | Root Hints

Forwarders are servers that can resolve DNS queries not answered by this server. Forward queries for names in the following DNS domains.

DNS domain:

All other DNS domains

New... Remove

To add a forwarder, select a DNS domain, type the forwarder's IP address below, and then click Add.

Selected domain's forwarder IP address list:

. . . Add

192.168.155.2 Remove Up Down

Number of seconds before forward queries time out: 5

☐ Do not use recursion for this domain

OK Cancel Apply

Click OK.

Close the DNSMGMT screen.



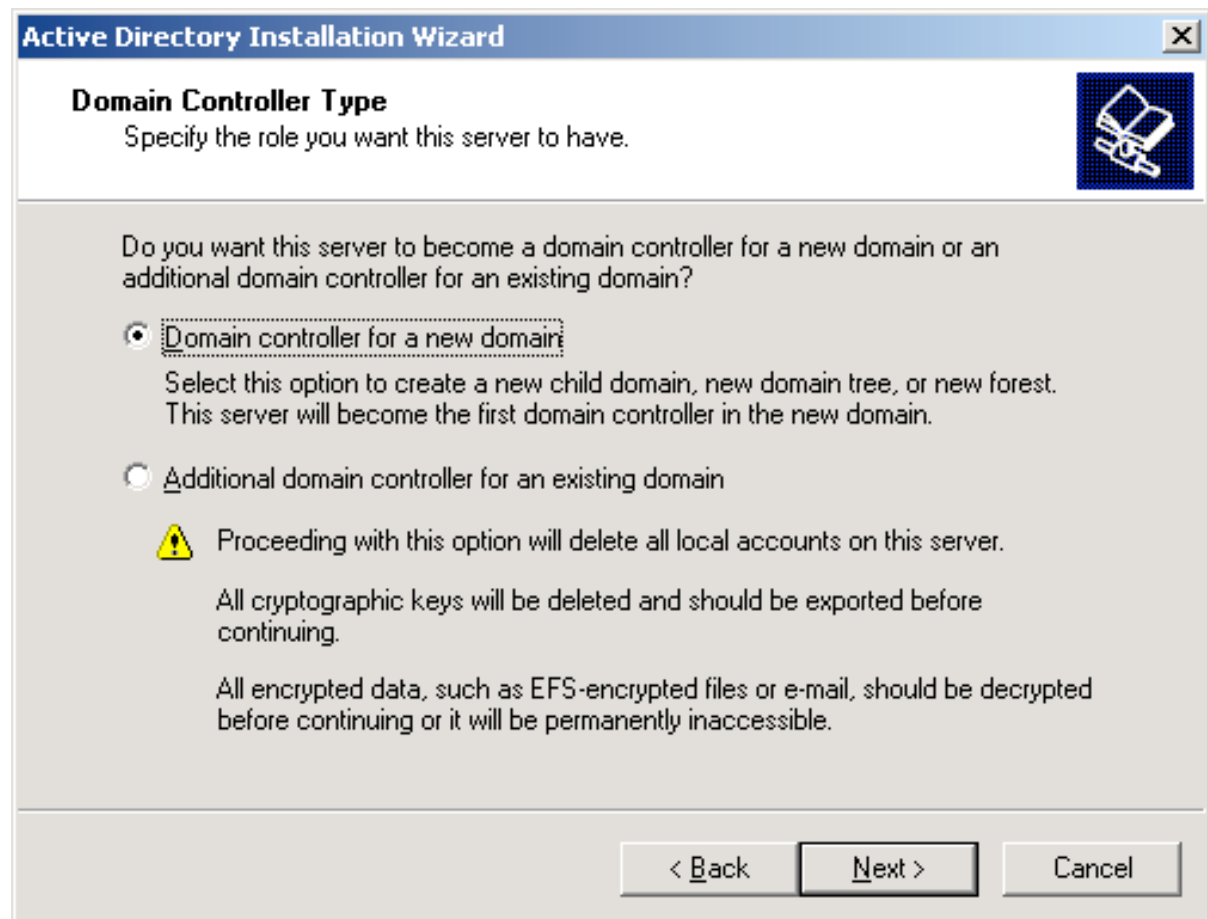
## Install Active Directory

From a command prompt run `deprmo`

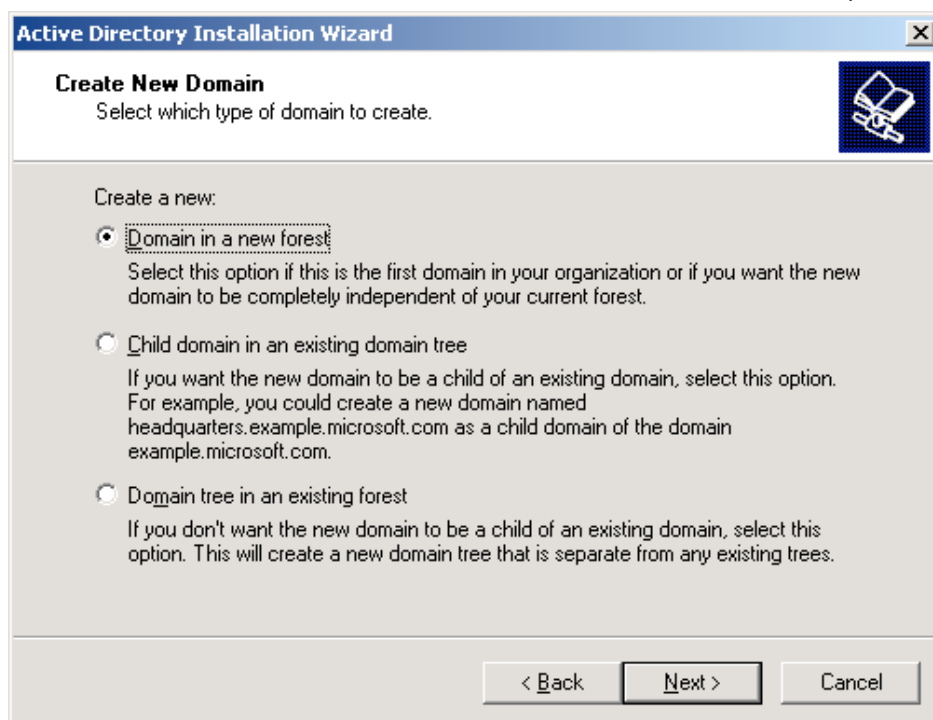
You should see the Active Directory installation wizard welcome screen. Click Next.

You will then see a screen about Operating System Compatibility. Click Next.

On the Domain Controller Type screen leave Domain controller for a new domain selected and press Next.



On the Create New Domain screen leave Domain in a new forest selected and press Next.



The screenshot shows the 'Active Directory Installation Wizard' window, specifically the 'Create New Domain' step. The title bar reads 'Active Directory Installation Wizard'. Below the title bar, the section is titled 'Create New Domain' with the instruction 'Select which type of domain to create.' There are three radio button options under the heading 'Create a new:'. The first option, 'Domain in a new forest', is selected. The second option is 'Child domain in an existing domain tree', and the third is 'Domain tree in an existing forest'. At the bottom of the window are three buttons: '< Back', 'Next >', and 'Cancel'.

**Active Directory Installation Wizard**

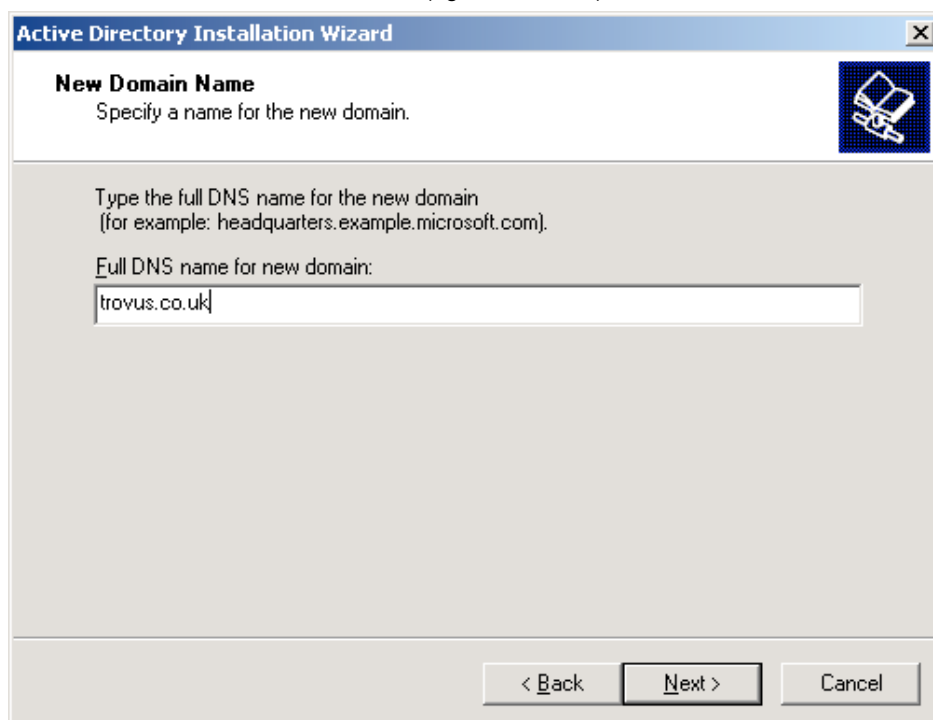
**Create New Domain**  
Select which type of domain to create.

Create a new:

- ☒ **Domain in a new forest**  
Select this option if this is the first domain in your organization or if you want the new domain to be completely independent of your current forest.
- ☐ **Child domain in an existing domain tree**  
If you want the new domain to be a child of an existing domain, select this option. For example, you could create a new domain named `headquarters.example.microsoft.com` as a child domain of the domain `example.microsoft.com`.
- ☐ **Domain tree in an existing forest**  
If you don't want the new domain to be a child of an existing domain, select this option. This will create a new domain tree that is separate from any existing trees.

< Back   Next >   Cancel

In New Domain Name enter <domain> (eg trovus.co.uk). Click Next.



The screenshot shows the 'Active Directory Installation Wizard' window, specifically the 'New Domain Name' step. The title bar reads 'Active Directory Installation Wizard'. Below the title bar, the section is titled 'New Domain Name' with the instruction 'Specify a name for the new domain.' There is a text box labeled 'Full DNS name for new domain:' containing the text 'trovus.co.uk'. At the bottom of the window are three buttons: '< Back', 'Next >', and 'Cancel'.

**Active Directory Installation Wizard**

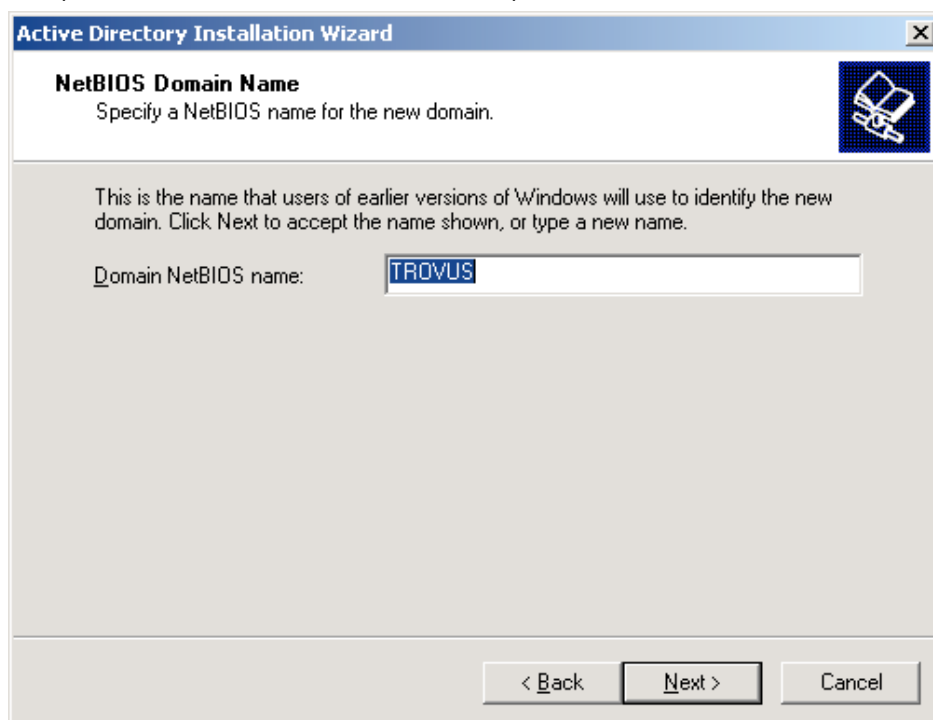
**New Domain Name**  
Specify a name for the new domain.

Type the full DNS name for the new domain  
(for example: `headquarters.example.microsoft.com`).

Full DNS name for new domain:  
trovus.co.uk

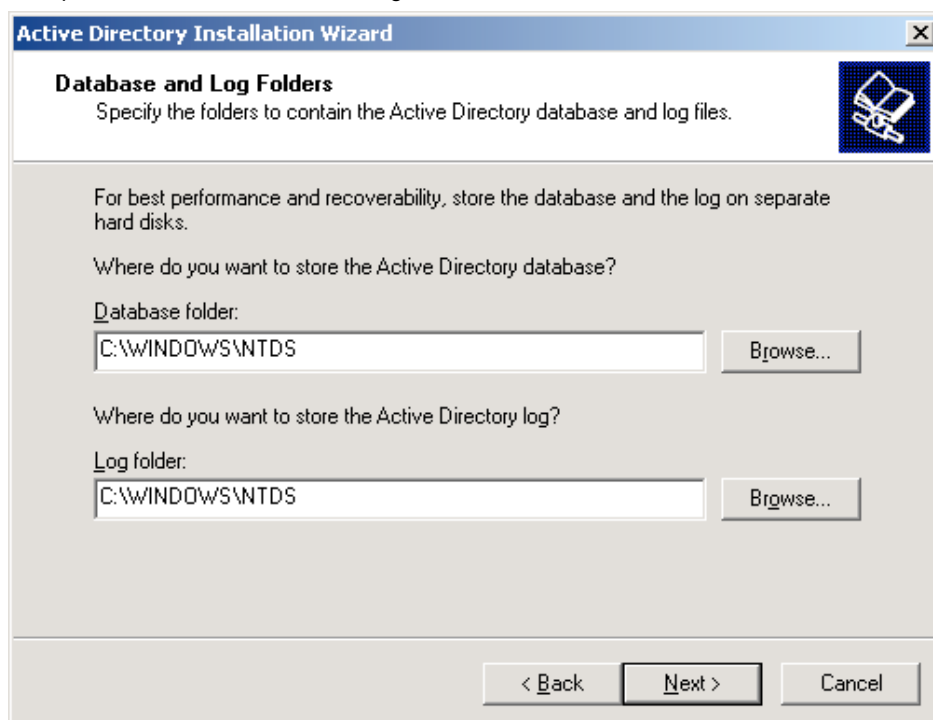
< Back   Next >   Cancel

Accept the default Domain NetBIOS name and press Next.



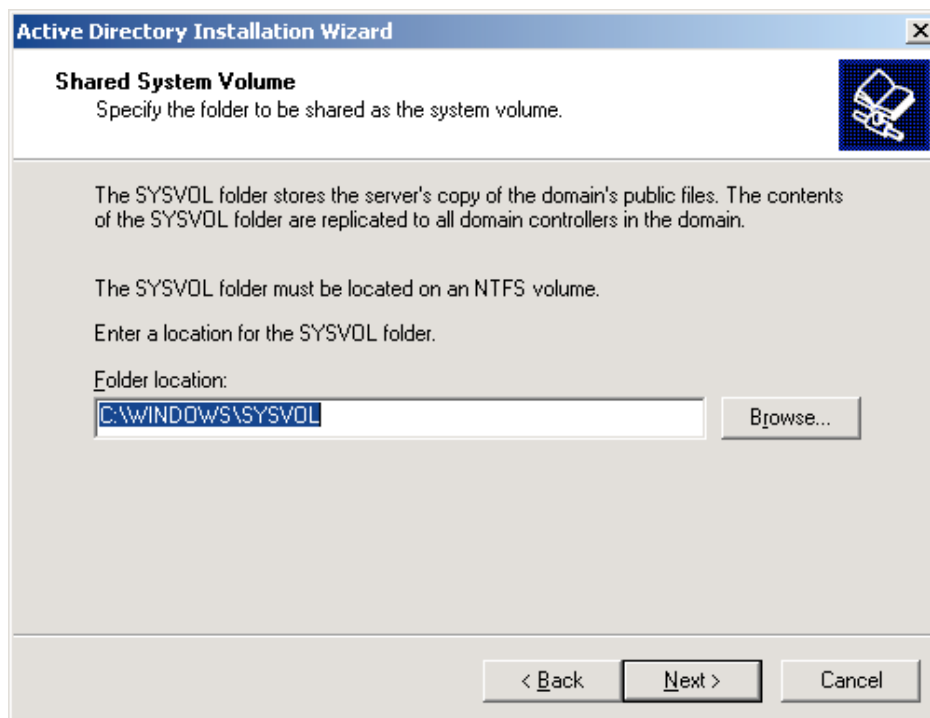
The screenshot shows the 'Active Directory Installation Wizard' window. The title bar reads 'Active Directory Installation Wizard'. The main heading is 'NetBIOS Domain Name' with a sub-instruction 'Specify a NetBIOS name for the new domain.' Below this, a text box contains 'TROVUS'. A paragraph explains: 'This is the name that users of earlier versions of Windows will use to identify the new domain. Click Next to accept the name shown, or type a new name.' At the bottom are three buttons: '< Back', 'Next >', and 'Cancel'.

Accept the default Database and Log folders and click Next

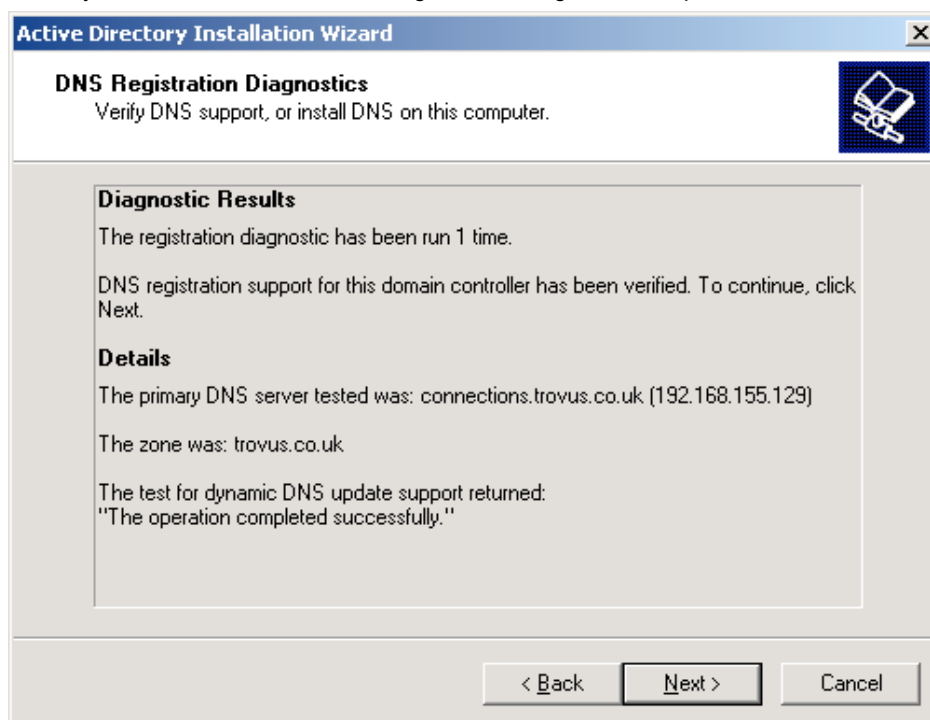


The screenshot shows the 'Active Directory Installation Wizard' window. The title bar reads 'Active Directory Installation Wizard'. The main heading is 'Database and Log Folders' with a sub-instruction 'Specify the folders to contain the Active Directory database and log files.' Below this, a paragraph explains: 'For best performance and recoverability, store the database and the log on separate hard disks.' It then asks 'Where do you want to store the Active Directory database?' and shows a text box with 'C:\WINDOWS\NTDS' and a 'Browse...' button. It then asks 'Where do you want to store the Active Directory log?' and shows a text box with 'C:\WINDOWS\NTDS' and a 'Browse...' button. At the bottom are three buttons: '< Back', 'Next >', and 'Cancel'.

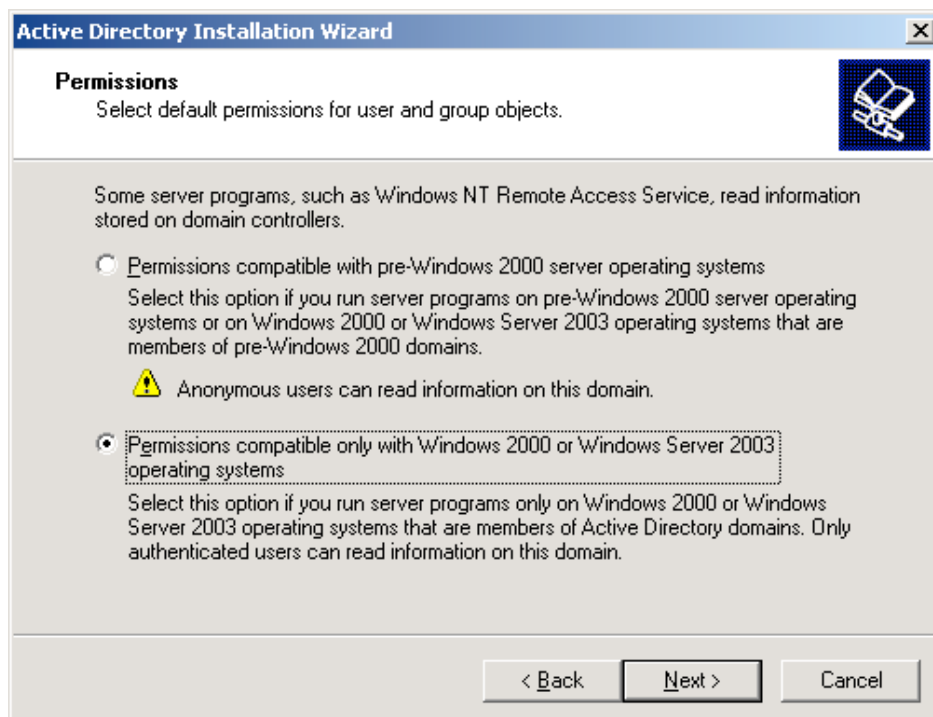
Accept the default Shared System Volume and press Next



Check you have a successful DNS Registration Diagnostic and press Next

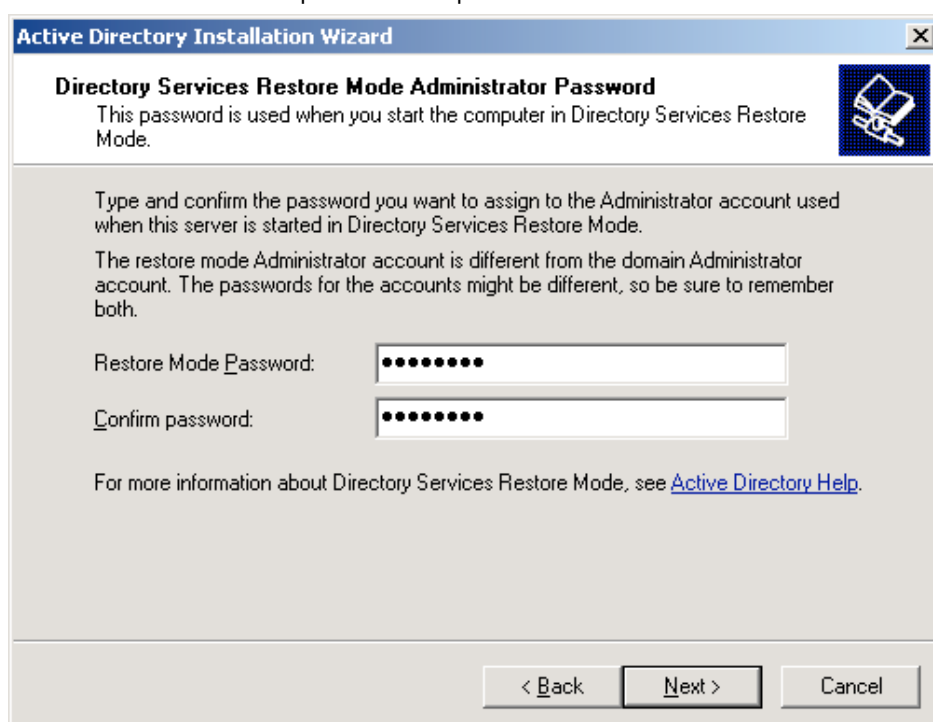


On the Permissions screen leave Permissions compatible only with Windows 2000 or Windows Server 2003 operating systems and press Next.



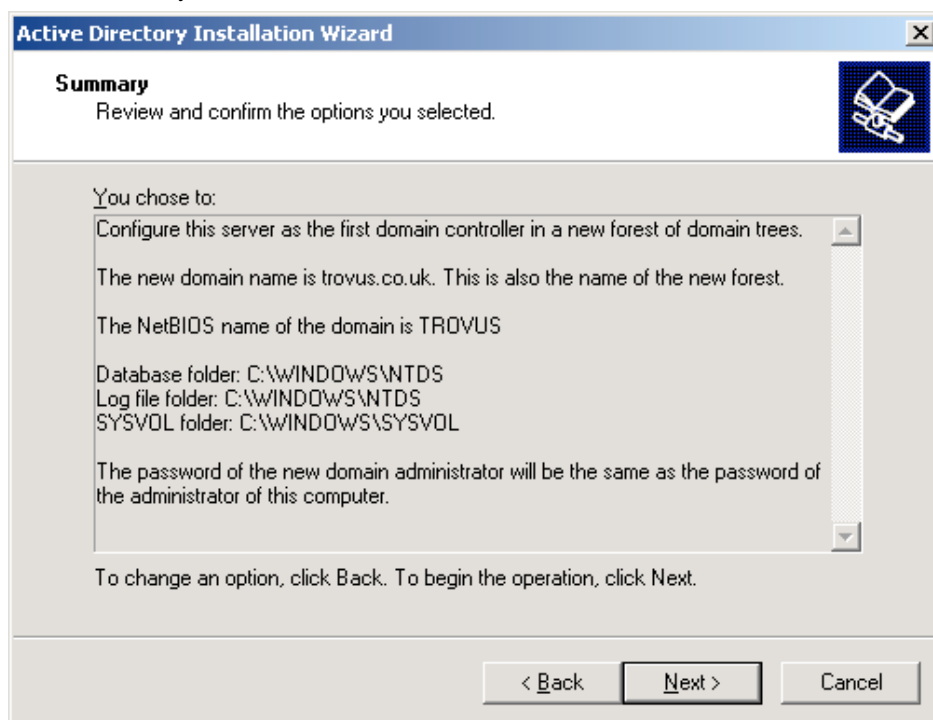
The screenshot shows the 'Active Directory Installation Wizard' window, specifically the 'Permissions' step. The title bar reads 'Active Directory Installation Wizard'. Below the title bar, the section is titled 'Permissions' with a sub-instruction: 'Select default permissions for user and group objects.' To the right of this text is a small icon of a computer with a key. The main content area contains a paragraph: 'Some server programs, such as Windows NT Remote Access Service, read information stored on domain controllers.' Below this are two radio button options. The first option is 'Permissions compatible with pre-Windows 2000 server operating systems', with a description: 'Select this option if you run server programs on pre-Windows 2000 server operating systems or on Windows 2000 or Windows Server 2003 operating systems that are members of pre-Windows 2000 domains.' Below this option is a yellow warning triangle icon followed by the text: 'Anonymous users can read information on this domain.' The second option is 'Permissions compatible only with Windows 2000 or Windows Server 2003 operating systems', which is selected. Its description is: 'Select this option if you run server programs only on Windows 2000 or Windows Server 2003 operating systems that are members of Active Directory domains. Only authenticated users can read information on this domain.' At the bottom of the window are three buttons: '< Back', 'Next >', and 'Cancel'.

Enter a memorable restore password and press Next



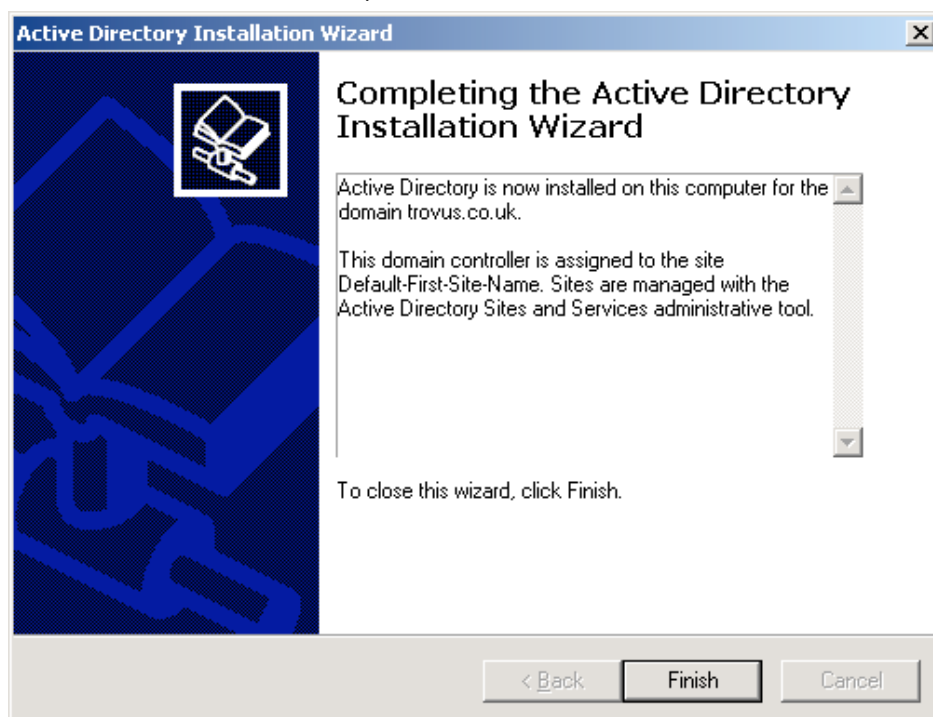
The screenshot shows the 'Active Directory Installation Wizard' window, specifically the 'Directory Services Restore Mode Administrator Password' step. The title bar reads 'Active Directory Installation Wizard'. Below the title bar, the section is titled 'Directory Services Restore Mode Administrator Password' with a sub-instruction: 'This password is used when you start the computer in Directory Services Restore Mode.' To the right of this text is a small icon of a computer with a key. The main content area contains two paragraphs: 'Type and confirm the password you want to assign to the Administrator account used when this server is started in Directory Services Restore Mode.' and 'The restore mode Administrator account is different from the domain Administrator account. The passwords for the accounts might be different, so be sure to remember both.' Below these paragraphs are two text input fields. The first is labeled 'Restore Mode Password:' and the second is labeled 'Confirm password:'. Both fields contain a series of dots, indicating that the password has been entered but is masked. At the bottom of the window are three buttons: '< Back', 'Next >', and 'Cancel'.

On the Summary screen click Next



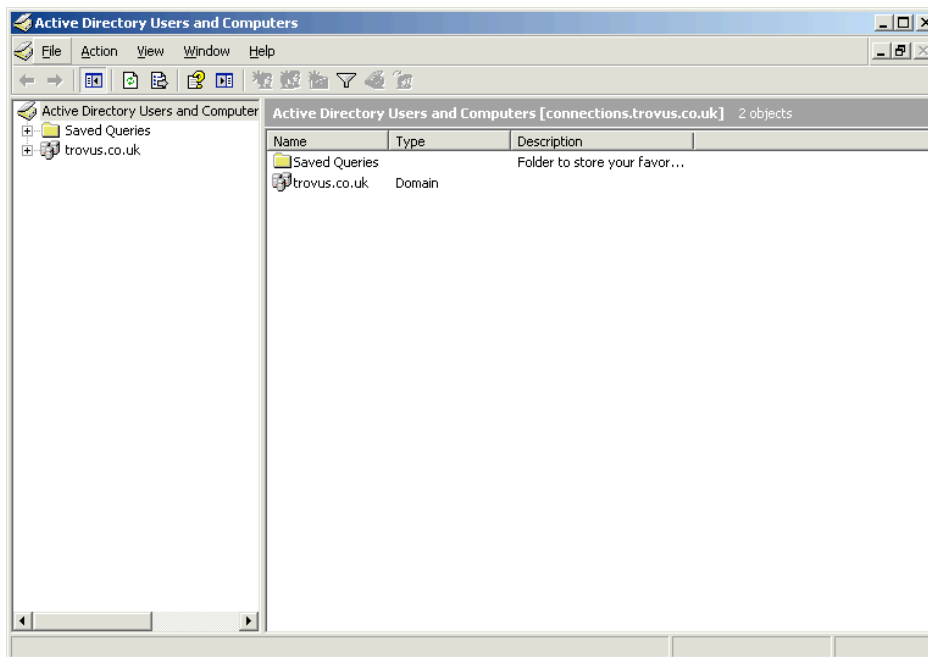
Active Directory configuration should start. This should only take a few minutes.

You should see a successful completion screen. Click Finish.

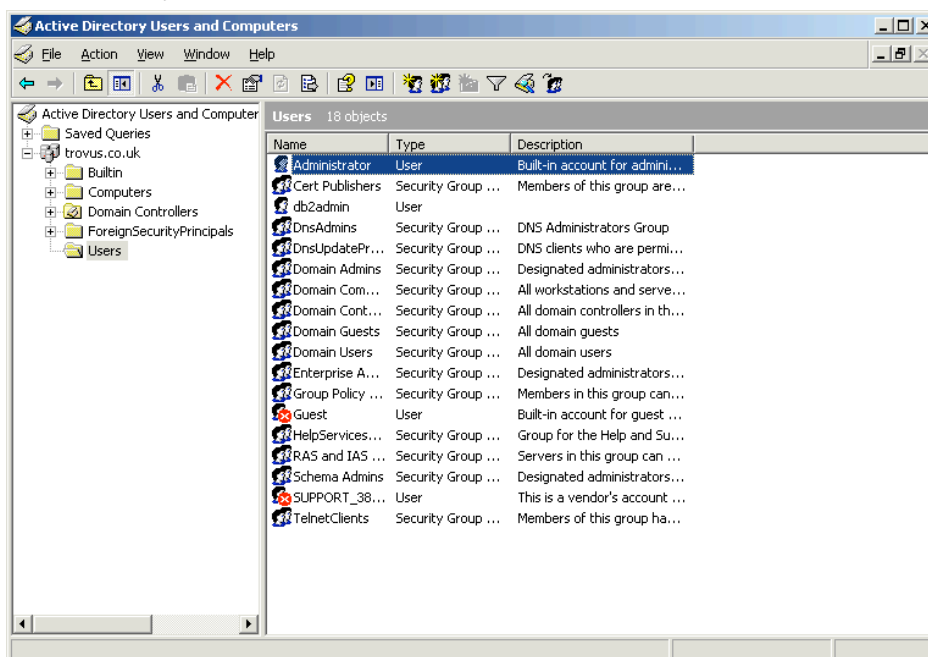


You will then be asked to restart your machine. **Note in future restarts you will have to change the Domain on the log in screen before entering your username and password!**

Log back in as the Administrator and go to Start -> Administrative Tools -> Active Directory Users and Computers

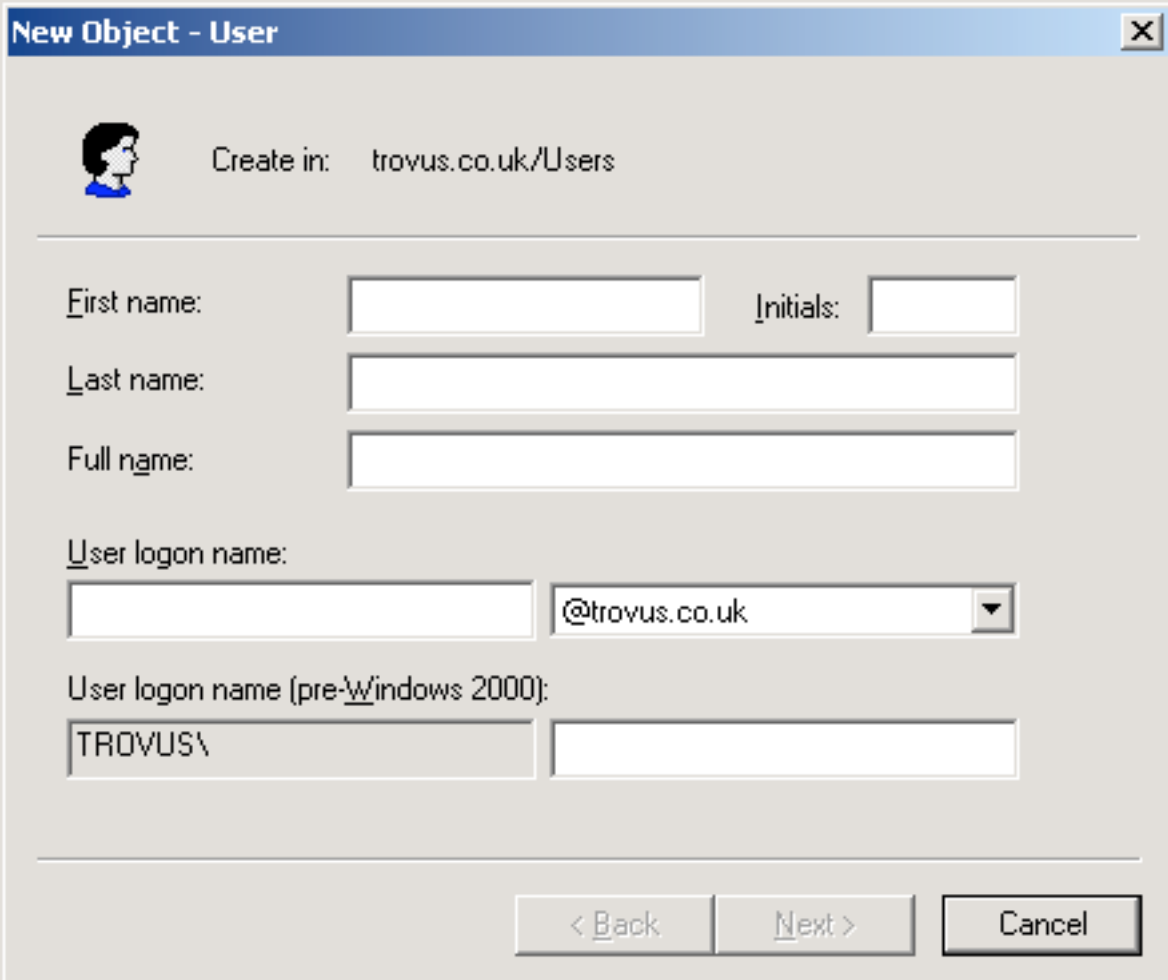


Expand your domain and click on Users to confirm that your <winadminuser> and <db2user> are present in the Active Directory



## Create some users

Right click on Users, click New and click User



**New Object - User**

Create in: trovus.co.uk/Users

First name:  Initials:

Last name:

Full name:

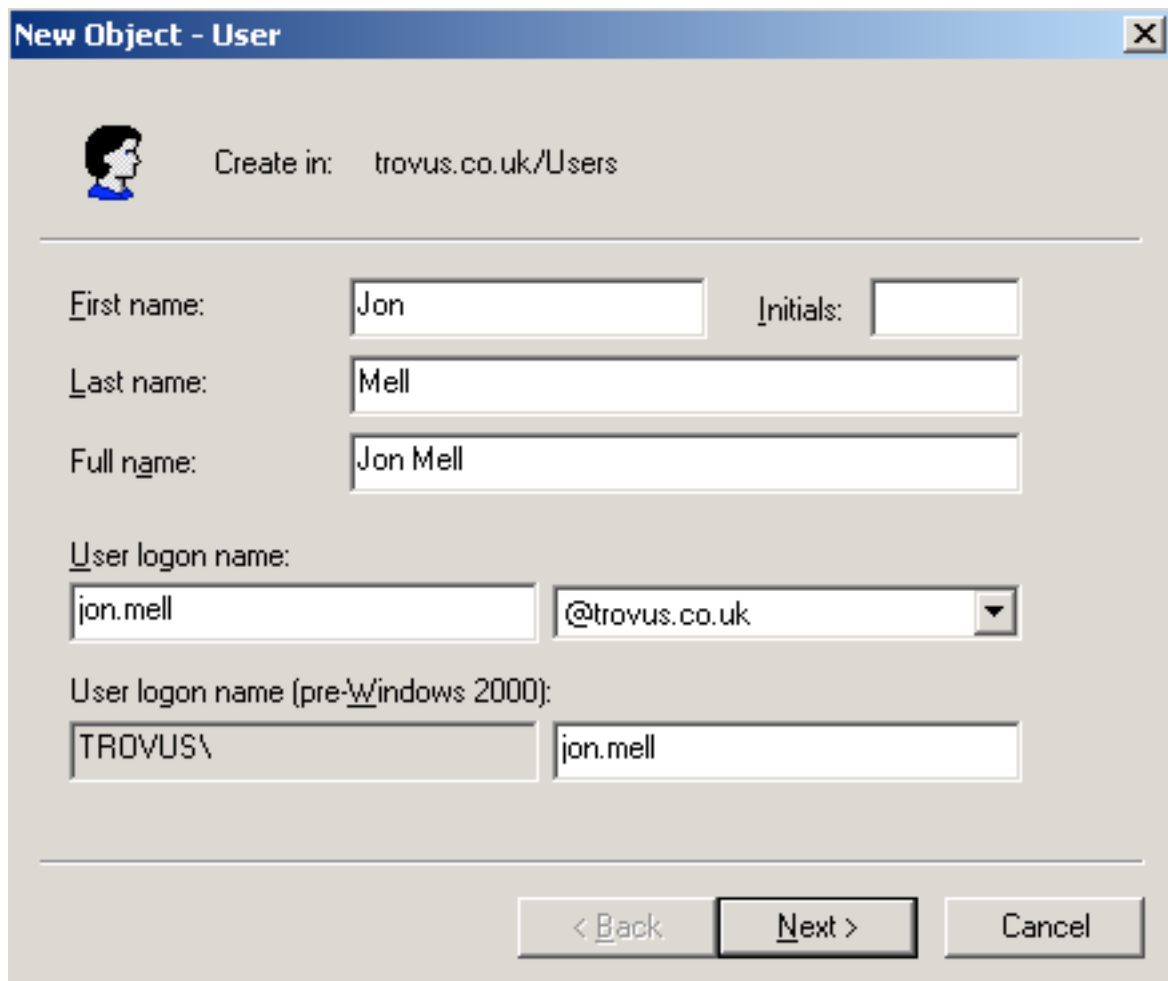
User logon name:  @trovus.co.uk

User logon name (pre-Windows 2000):  TROVUS\

< Back Next > Cancel



Add some users so that we have some people to log in once Connections is installed. Note that their login will just be their User logon name, not with the email domain appended. So here the Lotus Connections login name is jon.mell – not jon.mell@trovus.co.uk. Click next.



**New Object - User**

Create in: trovus.co.uk/Users

First name: Jon Initials:

Last name: Mell

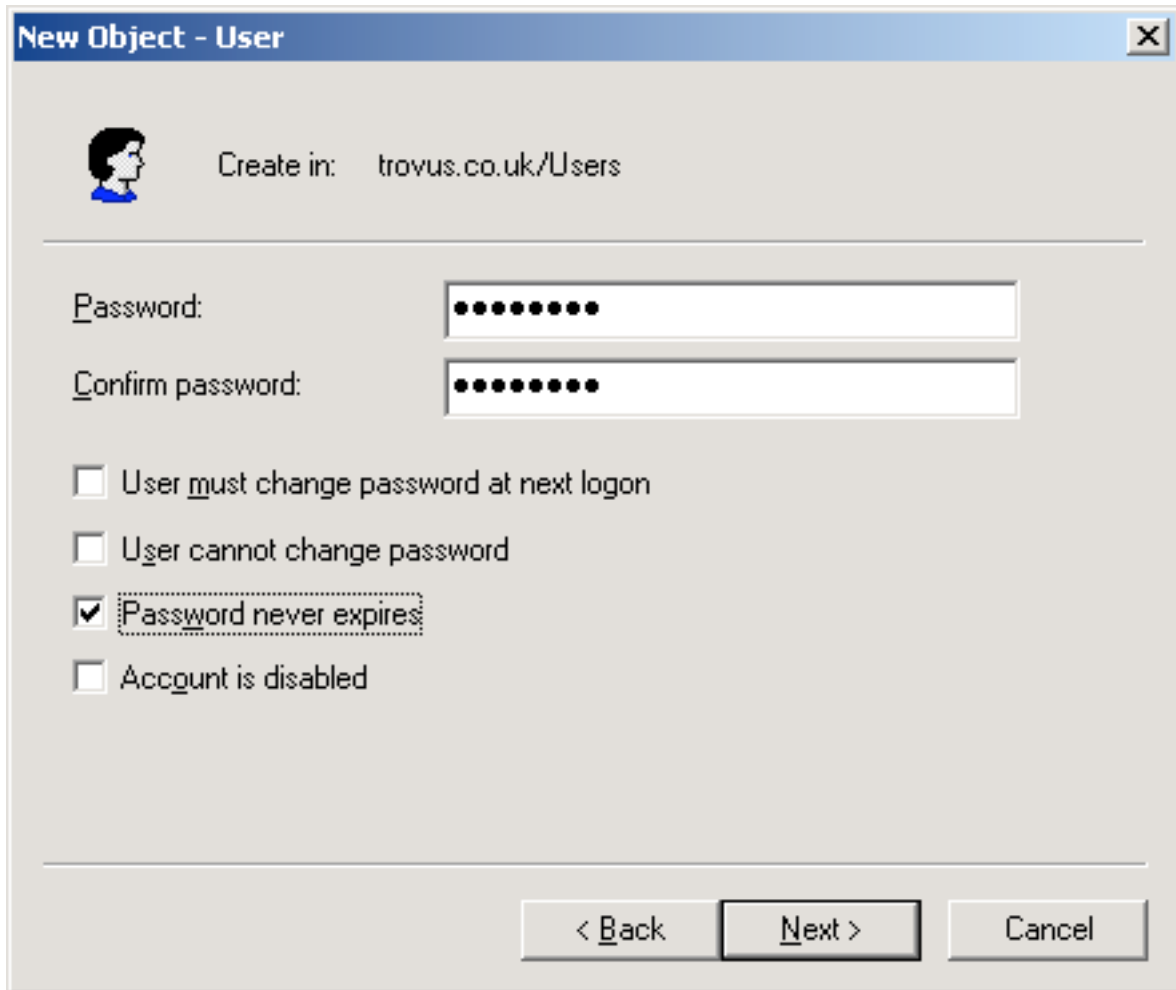
Full name: Jon Mell

User logon name: jon.mell @trovus.co.uk

User logon name (pre-Windows 2000): TROVUS\ jon.mell

< Back Next > Cancel

Enter a password and use the following settings. Note Active Directory requires 8 digit passwords with a number, a lowercase character and an uppercase character.



**New Object - User**

Create in: trovus.co.uk/Users

Password: [password field]

Confirm password: [password field]

☐ User must change password at next logon

☐ User cannot change password

☒ Password never expires

☐ Account is disabled

< Back   Next >   Cancel

Click Next and then Finish.


Double click on your newly created user.

**Jon Mell Properties** ? X

Member Of | Dial-in | Environment | Sessions

Remote control | Terminal Services Profile | COM+

General | Address | Account | Profile | Telephones | Organization

 Jon Mell

First name:  Initials:

Last name:

Display name:

Description:

Office:

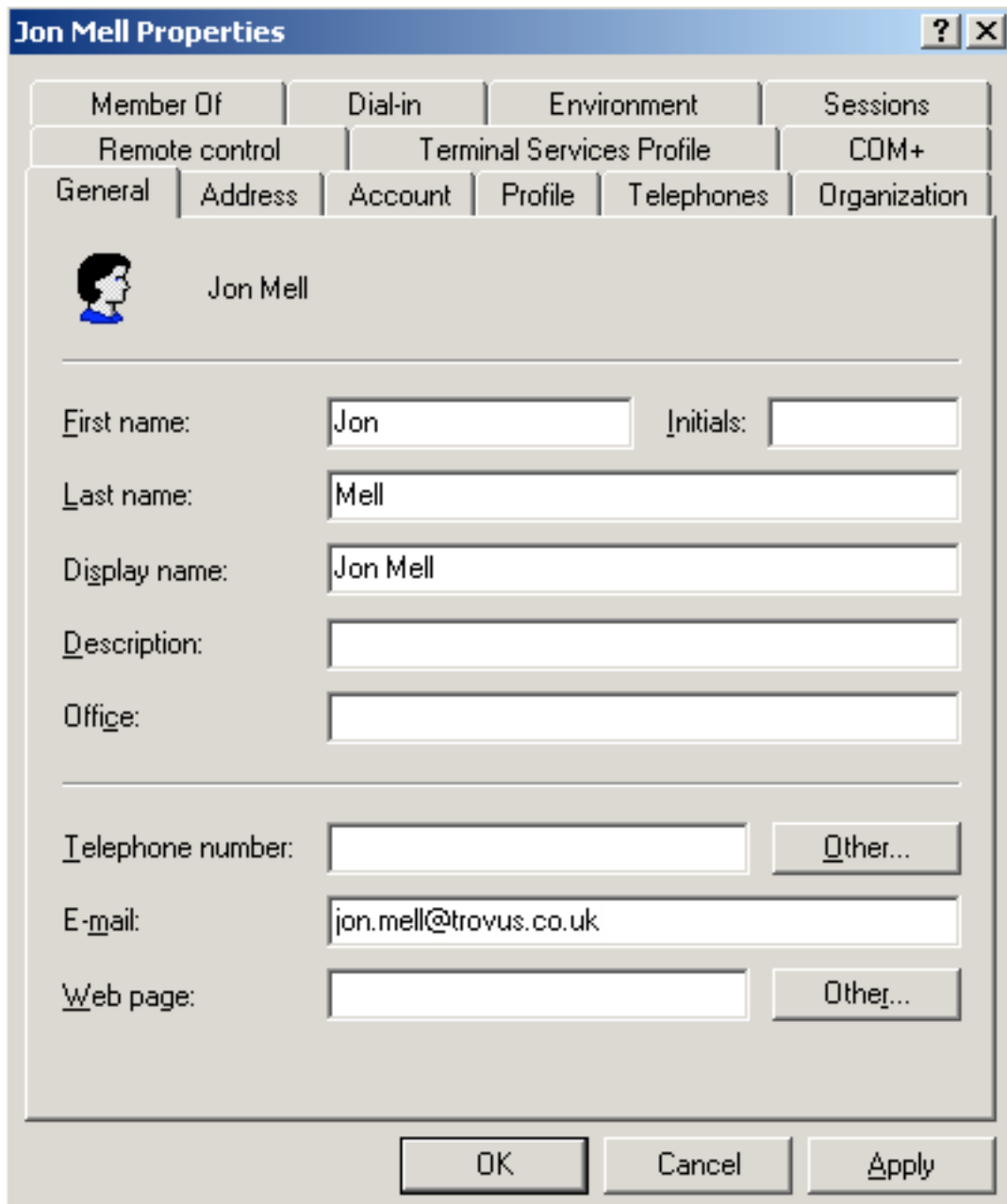
Telephone number:  Other...

E-mail:

Web page:  Other...


OK Cancel Apply

Add an email address (it does not have to be valid). Note that all Connections users **must** have an email address. They will not be able to log on without one.



**Jon Mell Properties** [?] [X]

Member Of | Dial-in | Environment | Sessions  
Remote control | Terminal Services Profile | COM+  
General | Address | Account | Profile | Telephones | Organization

 Jon Mell

---

First name: Jon Initials:   
Last name: Mell  
Display name: Jon Mell  
Description:   
Office:

---

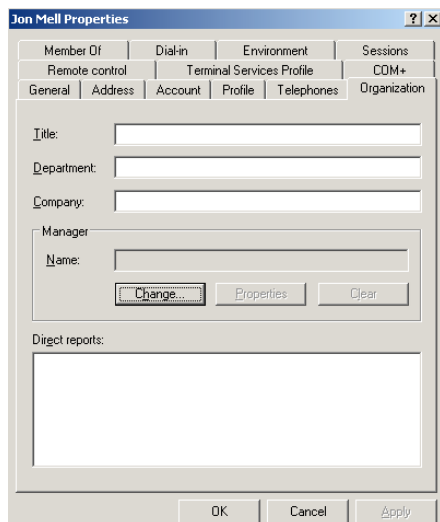
Telephone number:  Other...  
E-mail: jon.mell@trovus.co.uk  
Web page:  Other...

OK Cancel Apply

Click OK and create some more users if you wish, but remember to give them email addresses after you create them. The fact that the user login is in the form of an email address does not count!

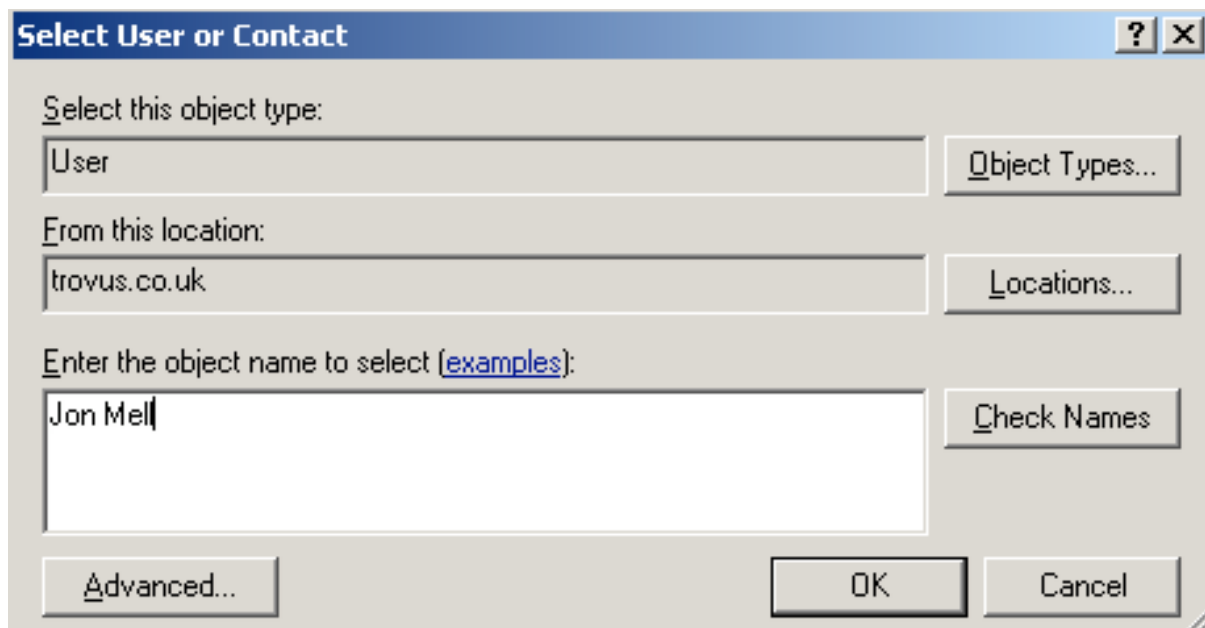
If you wish to add organisation hierarchy information (for use in Profiles for example) then click the **Organization** tab and management information.

To do this click the Organizaiton tab



The 'Jon Mell Properties' dialog box is shown with the 'Organization' tab selected. The 'General' tab is also visible. The 'Organization' tab contains fields for 'Title:', 'Department:', 'Company:', 'Manager Name:', and 'Direct reports:'. The 'Manager Name:' field has a 'Change...' button next to it. The 'Direct reports:' field is a large empty text area. The 'General' tab contains fields for 'Member Of:', 'Dial-in:', 'Environment:', 'Sessions:', 'Remote control:', 'Terminal Services Profile:', and 'CDM+'. The 'Organization' tab is currently active, showing the 'Manager Name:' field with a 'Change...' button next to it. The 'Direct reports:' field is a large empty text area. The 'General' tab is also visible, showing fields for 'Member Of:', 'Dial-in:', 'Environment:', 'Sessions:', 'Remote control:', 'Terminal Services Profile:', and 'CDM+'. The 'Organization' tab is currently active, showing the 'Manager Name:' field with a 'Change...' button next to it. The 'Direct reports:' field is a large empty text area. The 'General' tab is also visible, showing fields for 'Member Of:', 'Dial-in:', 'Environment:', 'Sessions:', 'Remote control:', 'Terminal Services Profile:', and 'CDM+'.

Click Change. Enter the name of the user's manager.



The 'Select User or Contact' dialog box is shown. It has a title bar with a question mark and a close button. The dialog contains three main sections: 'Select this object type:' with a dropdown menu showing 'User' and an 'Object Types...' button; 'From this location:' with a dropdown menu showing 'trovus.co.uk' and a 'Locations...' button; and 'Enter the object name to select (examples):' with a text input field containing 'Jon Mell' and a 'Check Names' button. At the bottom, there are three buttons: 'Advanced...', 'OK', and 'Cancel'.

Click Check Names and click OK.

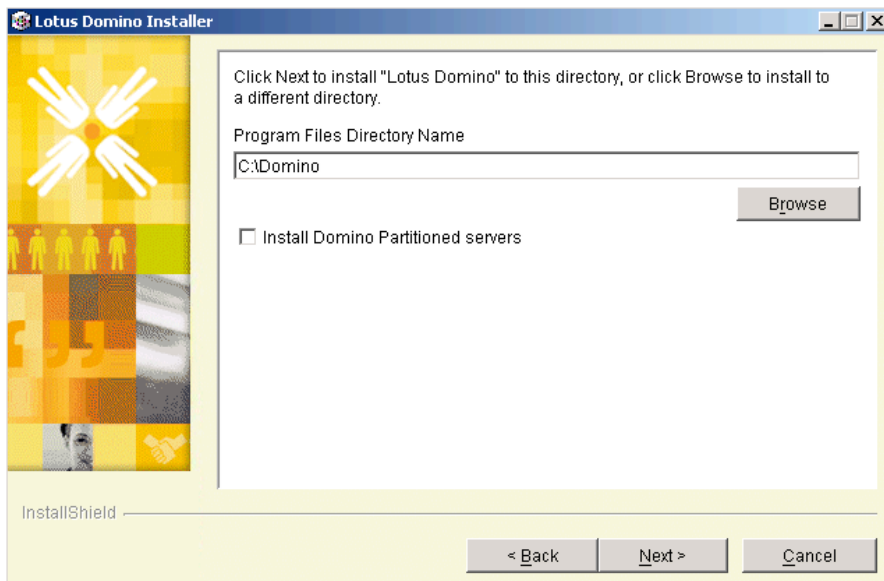
# Install Domino

Note that Domino does not appear to be included in the Passport Advantage package for Connections 2.0 that suggests you are not licensed to use it as an LDAP unless purchased separately. Either obtain a license or use a different LDAP.

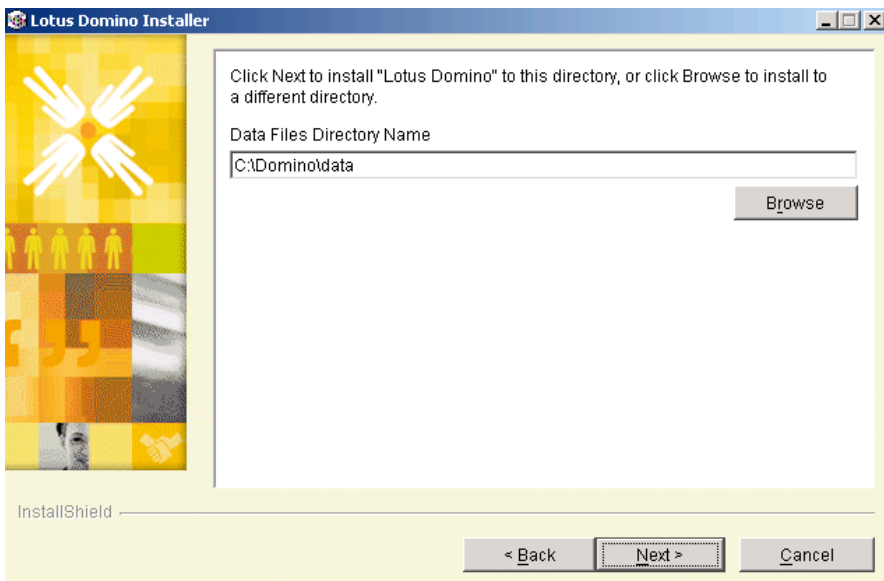
## Install Domino Server

Run setup.exe from the Domino media. Click Next on the Welcome screen. Accept the license terms and click Next.

Enter an installation directory for Domino and ensure the Partitioned servers check box is not selected. This is <dominoinstall>

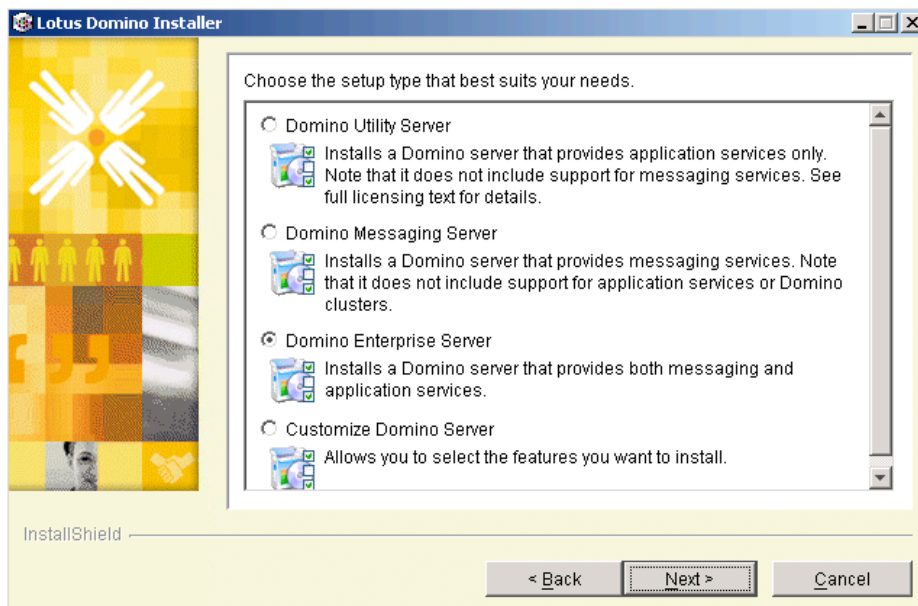


Click Next. The data files directory name is <dominodata>.

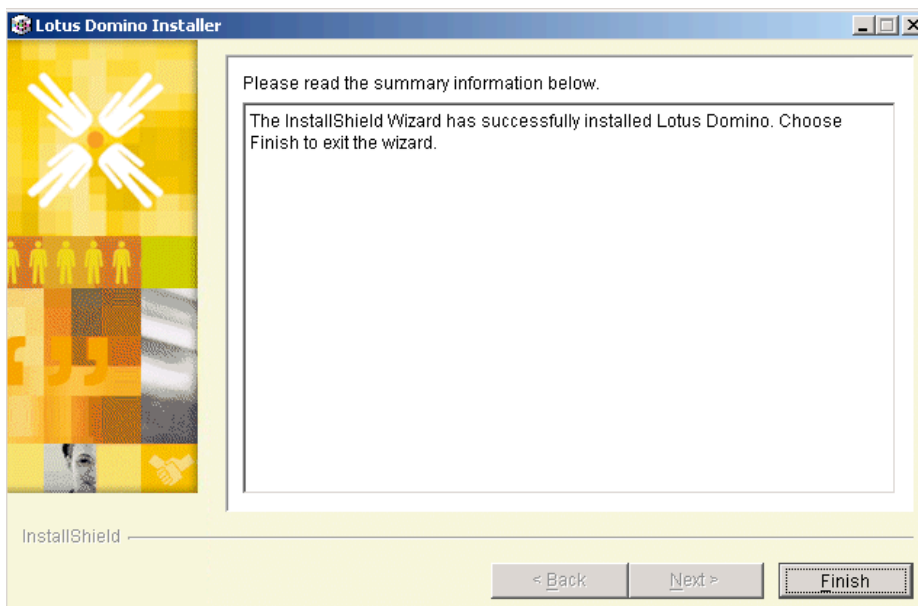


Click Next.

Select Domino Enterprise Server.



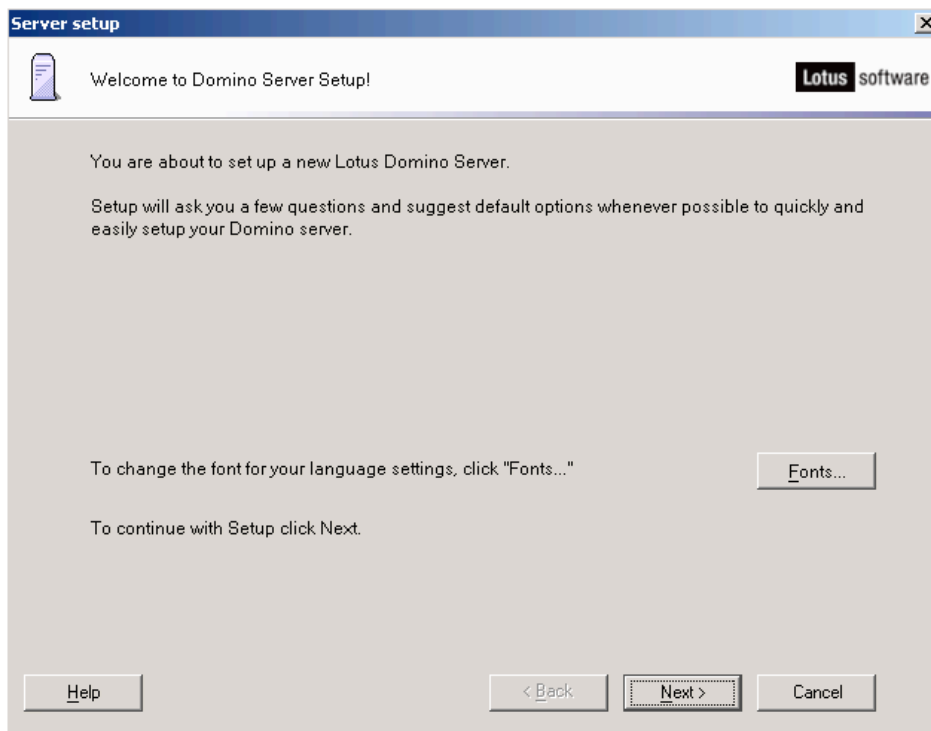
Click Next and click Next again on the confirmation screen to begin the installation. You should see this completion screen if successful.



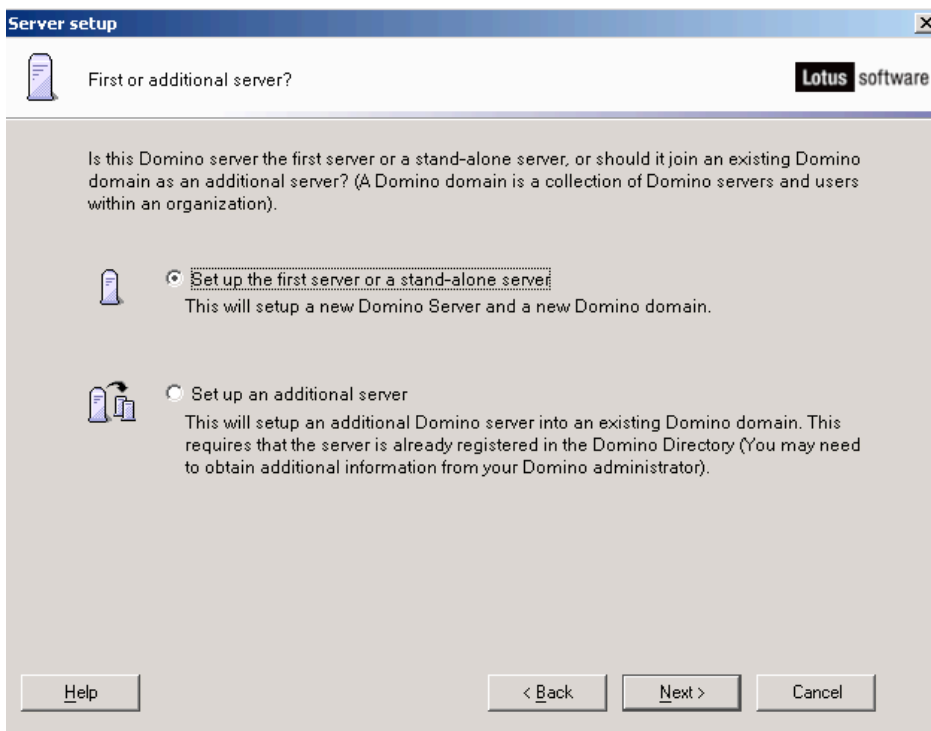
Click Finish

There should be an icon for Lotus Domino Server on your desktop. Double click this (if not, launch Domino by clicking Start -> All Programs -> Lotus Applications -> Lotus Domino Server)

You should see this screen.



Click next and select Set up the first server or a stand-alone server.





Click Next and enter a Server name. We suggest <hostname>. You can leave Server title blank and do not check I want to use an existing server ID file.

**Advanced: if installing LDAP on a separate machine use the LDAP server's hostname**

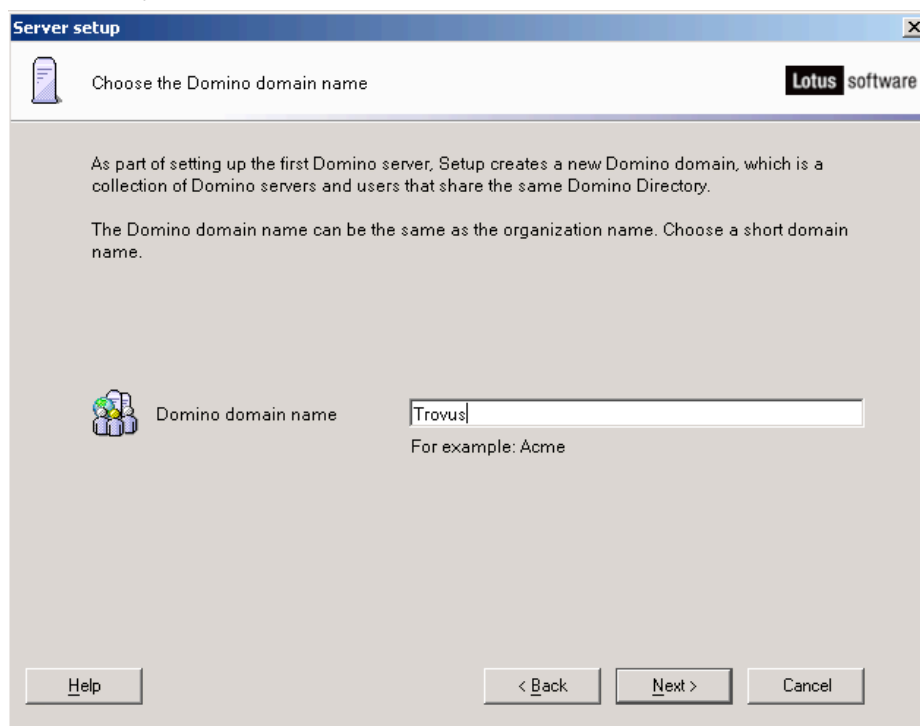
The screenshot shows the 'Server setup' dialog box with the title 'Provide a server name and title'. It includes a 'Lotus software' logo. The text explains that a unique name must be provided for the new Domino server. There are two input fields: 'Server name' with the value 'connections' and an example 'Sales1', and 'Server title' which is empty with an example 'Corporate Sales Server 1'. A checkbox 'I want to use an existing server ID file:' is unchecked, with a file path 'C:\Domino\data\server.id' and a 'Browse...' button. At the bottom are 'Help', '< Back', 'Next >', and 'Cancel' buttons.

Click next, and enter an Organisation name. This can be the name of your company (eg Trovus) and does not have to correspond to any network or user on the system. We recommend, however, that it is between 5-8 characters long. This is <orgname>.

Enter <orgpwd> as your Organization Certifier password. Do not check I want to use an existing certifier ID file

The screenshot shows the 'Server setup' dialog box with the title 'Choose your organization name'. It includes a 'Lotus software' logo. The text explains that the organization name is usually the company name. There are two input fields for the organization name, one with the value 'Trovus' and a note 'Minimum of 3 characters'. Below these, it shows 'This server's final name will be: connections/Trovus' and 'A typical user name will be: SYSTEM/Trovus'. There are two input fields for the 'Organization Certifier password' and 'Confirm password', both with masked characters '\*\*\*\*\*' and a note 'Minimum of 5 characters'. A checkbox 'I want to use an existing certifier ID file:' is unchecked, with a file path 'C:\Domino\data\cert.id' and a 'Browse...' button. At the bottom are 'Help', '< Back', 'Next >', and 'Cancel' buttons, along with a 'Customize...' button.

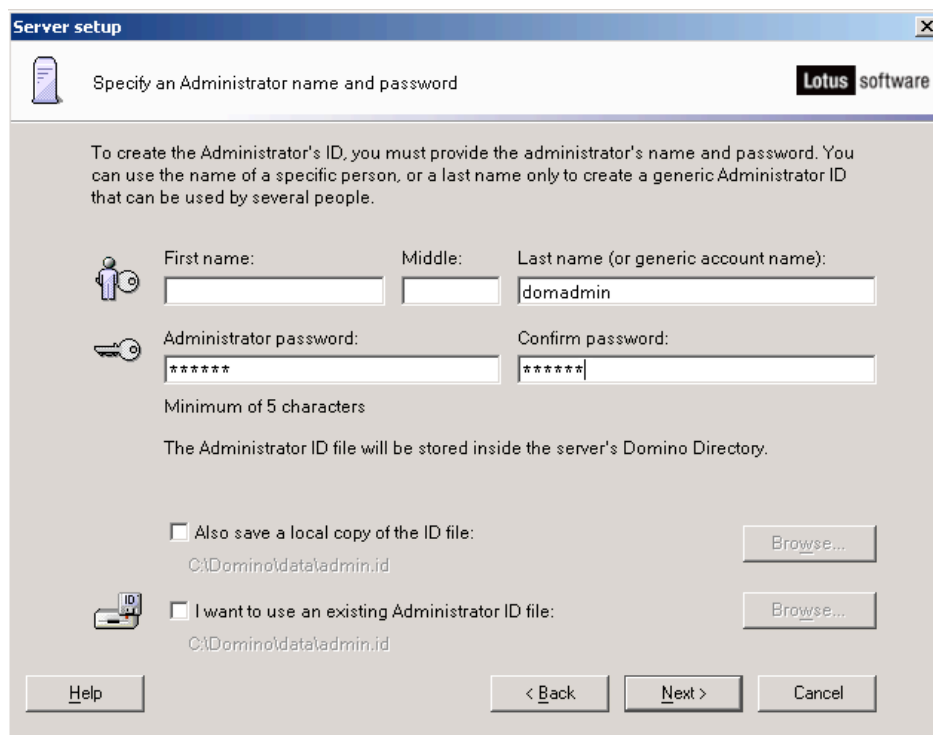
Click Next and enter a Domino domain name. Note that this is completely different from your network domain or <domain>. It can be your Organisation name you entered earlier, and unless you have any reason no to we recommend you keep these the same.



The screenshot shows the 'Server setup' window with the title bar 'Server setup' and a close button. The main heading is 'Choose the Domino domain name' with the Lotus software logo. Below this, there is explanatory text: 'As part of setting up the first Domino server, Setup creates a new Domino domain, which is a collection of Domino servers and users that share the same Domino Directory.' and 'The Domino domain name can be the same as the organization name. Choose a short domain name.' A text input field labeled 'Domino domain name' contains the text 'Trovus'. Below the field is the example 'For example: Acme'. At the bottom are buttons for 'Help', '< Back', 'Next >', and 'Cancel'.

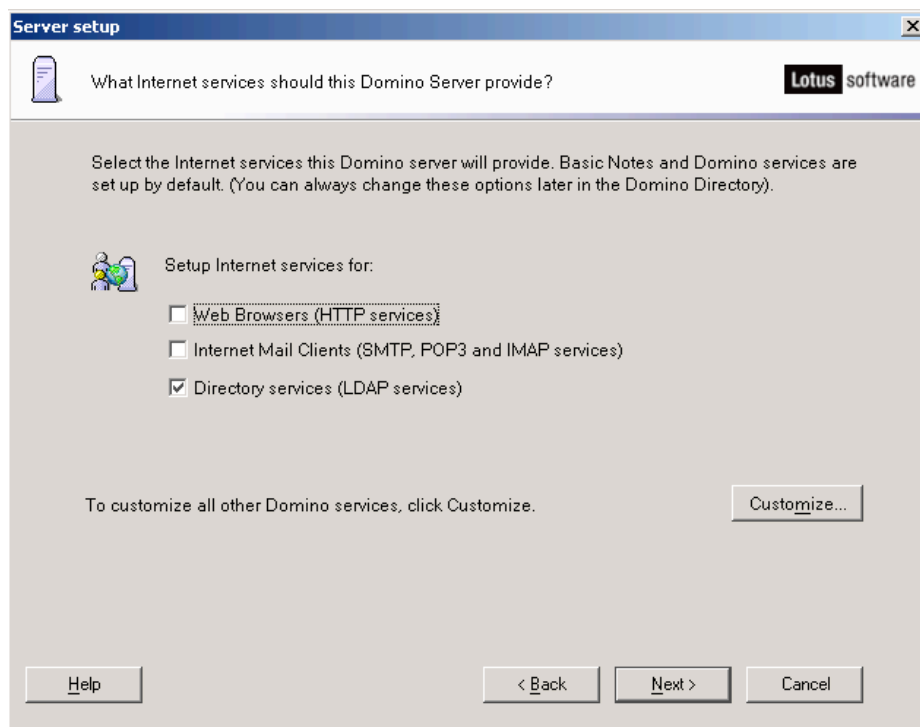
Click Next

Enter <dominoadmin> as the Last name and <dominopwd> as the Administrator password. Leave all other fields blank and do not check any checkboxes.

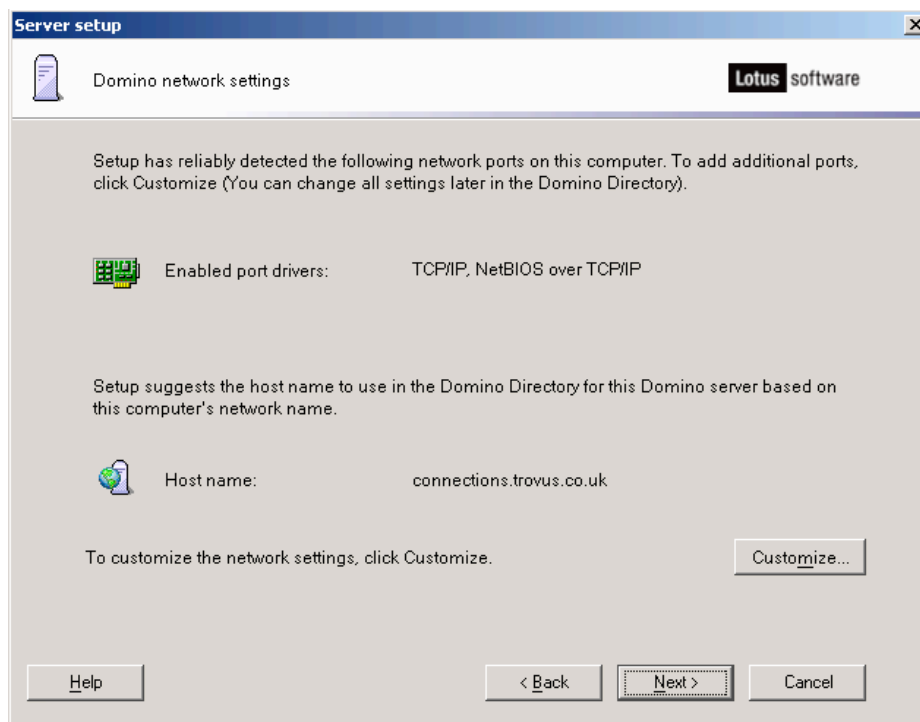


The screenshot shows the 'Server setup' window with the title bar 'Server setup' and a close button. The main heading is 'Specify an Administrator name and password' with the Lotus software logo. Below this, there is explanatory text: 'To create the Administrator's ID, you must provide the administrator's name and password. You can use the name of a specific person, or a last name only to create a generic Administrator ID that can be used by several people.' There are three text input fields for 'First name:', 'Middle:', and 'Last name (or generic account name):'. The 'Last name' field contains 'domadmin'. Below these are two password fields: 'Administrator password:' and 'Confirm password:', both containing '\*\*\*\*\*'. A note says 'Minimum of 5 characters'. Below that, it says 'The Administrator ID file will be stored inside the server's Domino Directory.' There are two checkboxes: 'Also save a local copy of the ID file:' and 'I want to use an existing Administrator ID file:'. Both have a 'Browse...' button next to them. The 'Also save a local copy of the ID file:' checkbox is checked, and the file path 'C:\Domino\data\admin.id' is shown. The 'I want to use an existing Administrator ID file:' checkbox is unchecked, and the file path 'C:\Domino\data\admin.id' is shown. At the bottom are buttons for 'Help', '< Back', 'Next >', and 'Cancel'.

Click next. Check Directory services and uncheck all the others.

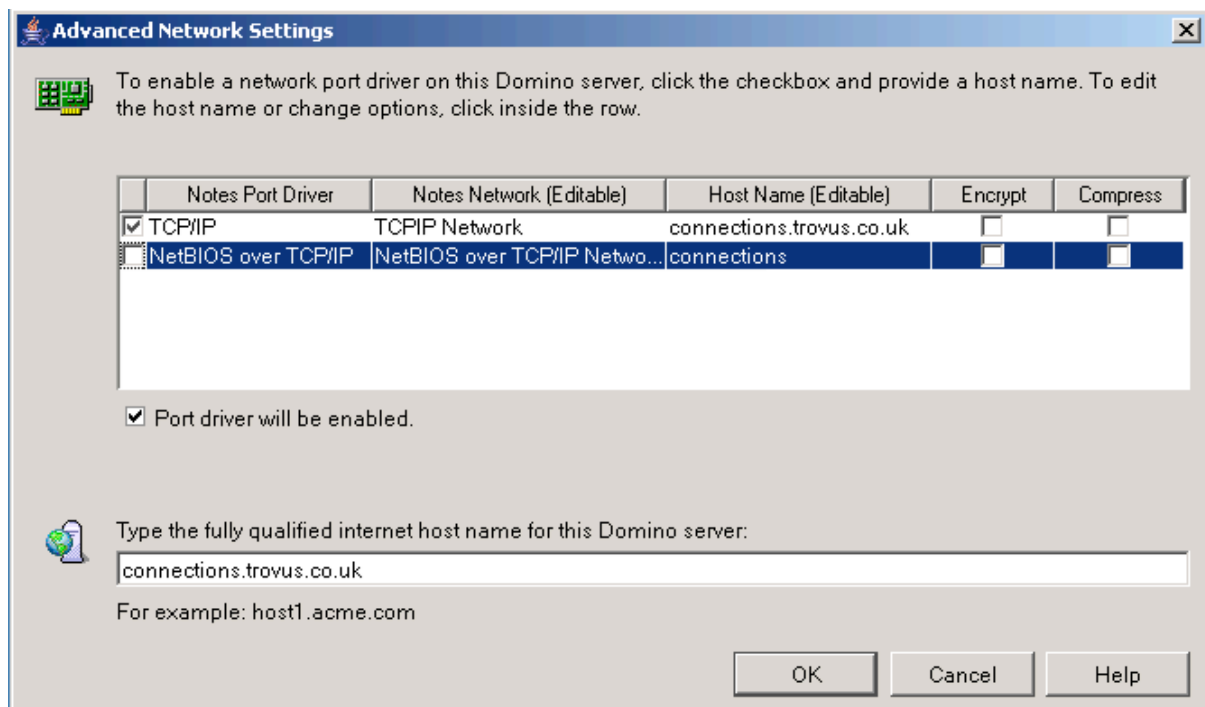


Click Next. Most people don't use NetBIOS so we recommend this is disabled.



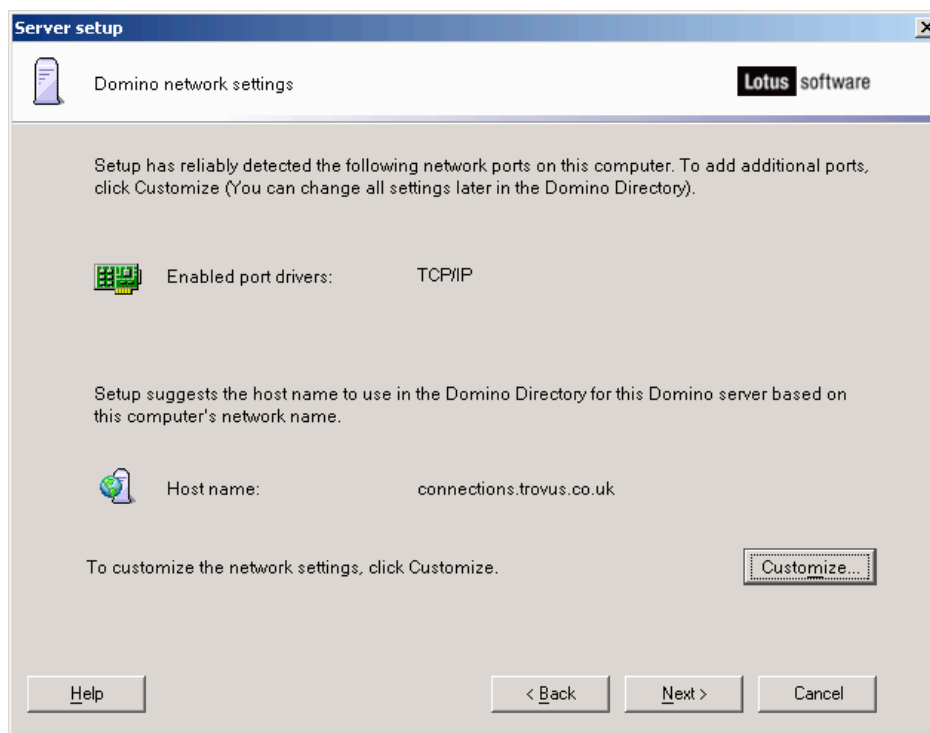
Click Customize...

Deselect NetBIOS over TCP/IP and ensure that TCP/IP remains selected.



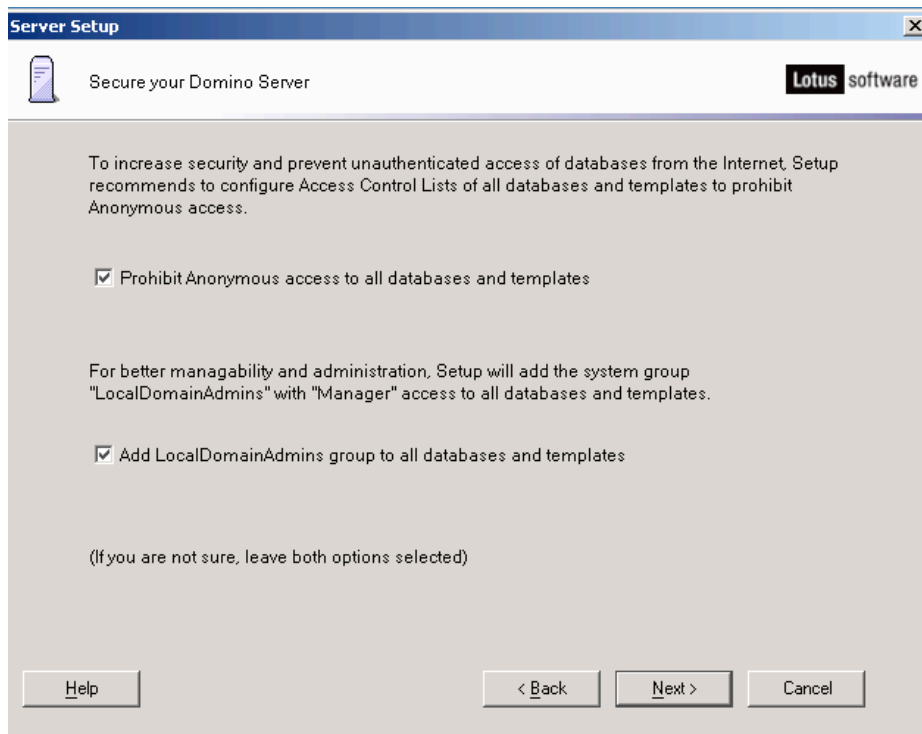
Click OK.

Check that NetBIOS over TCP/IP does not appear in the Enabled Port Drivers



Click Next

Ensure that both check boxes are selected on this screen



Server Setup

Secure your Domino Server

Lotus software

To increase security and prevent unauthenticated access of databases from the Internet, Setup recommends to configure Access Control Lists of all databases and templates to prohibit Anonymous access.

☒ Prohibit Anonymous access to all databases and templates

For better managability and administration, Setup will add the system group "LocalDomainAdmins" with "Manager" access to all databases and templates.

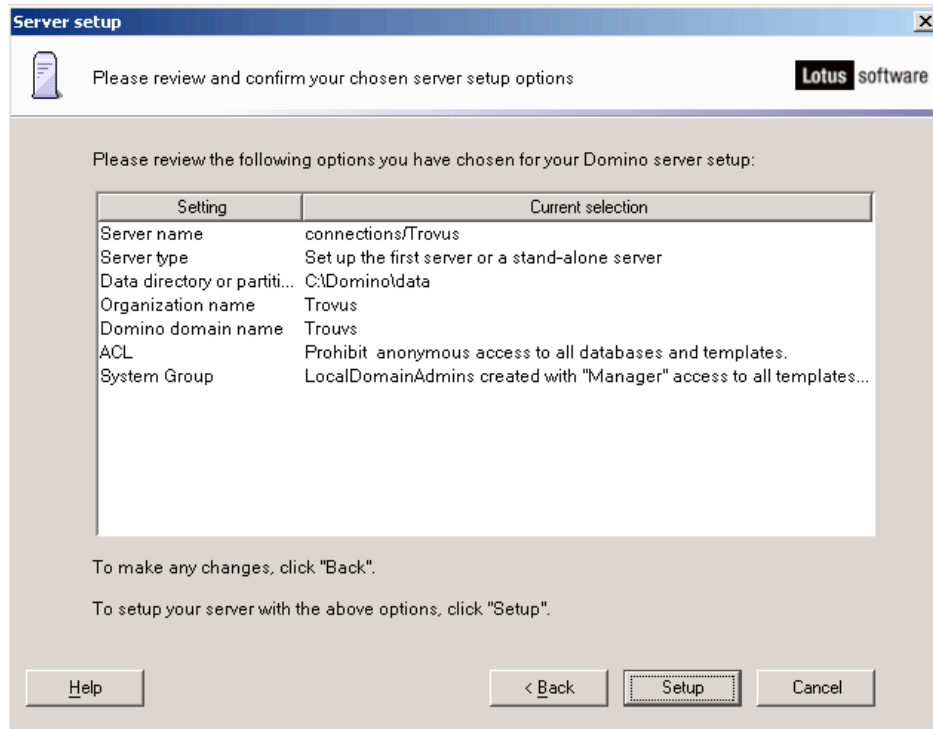
☒ Add LocalDomainAdmins group to all databases and templates

(If you are not sure, leave both options selected)

Help < Back Next > Cancel

Click next.

Review the summary screen



Server setup

Please review and confirm your chosen server setup options

Lotus software

Please review the following options you have chosen for your Domino server setup:

Setting	Current selection
Server name	connections/Trovus
Server type	Set up the first server or a stand-alone server
Data directory or partiti...	C:\Domino\data
Organization name	Trovus
Domino domain name	Trovus
ACL	Prohibit anonymous access to all databases and templates.
System Group	LocalDomainAdmins created with "Manager" access to all templates...

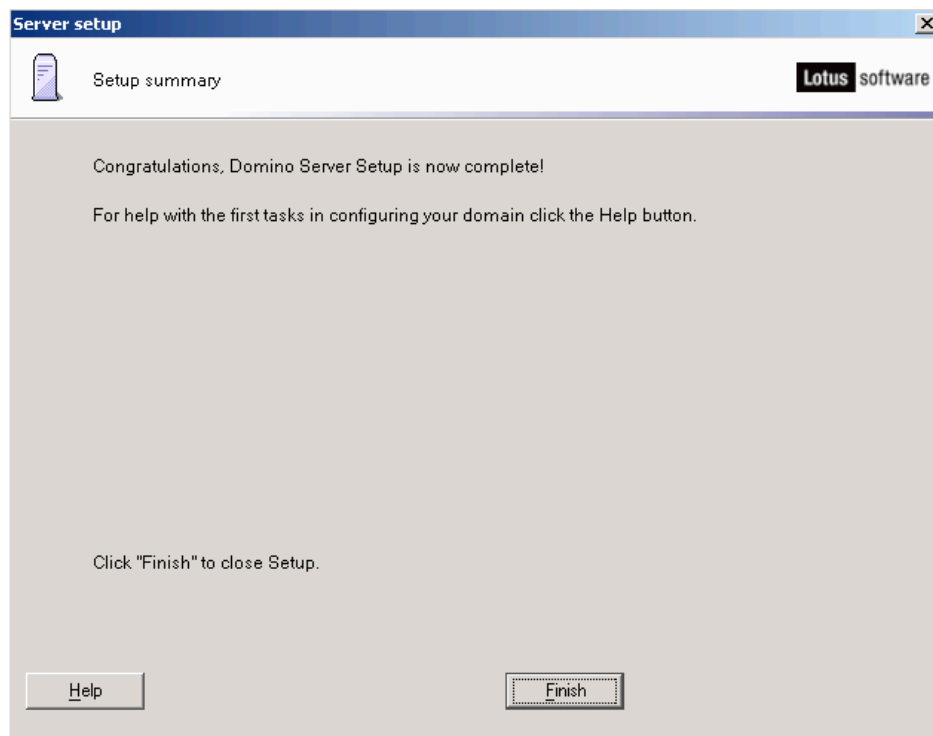
To make any changes, click "Back".

To setup your server with the above options, click "Setup".

Help < Back Setup Cancel

Press Setup.

You should see this screen on completion.



Press Finish

## Install Domino Client

Extract the Notes 8.0.1 media. Ensure your package contains the Domino Administrator as well as the Notes Client (see required software above). Run `setup.exe`

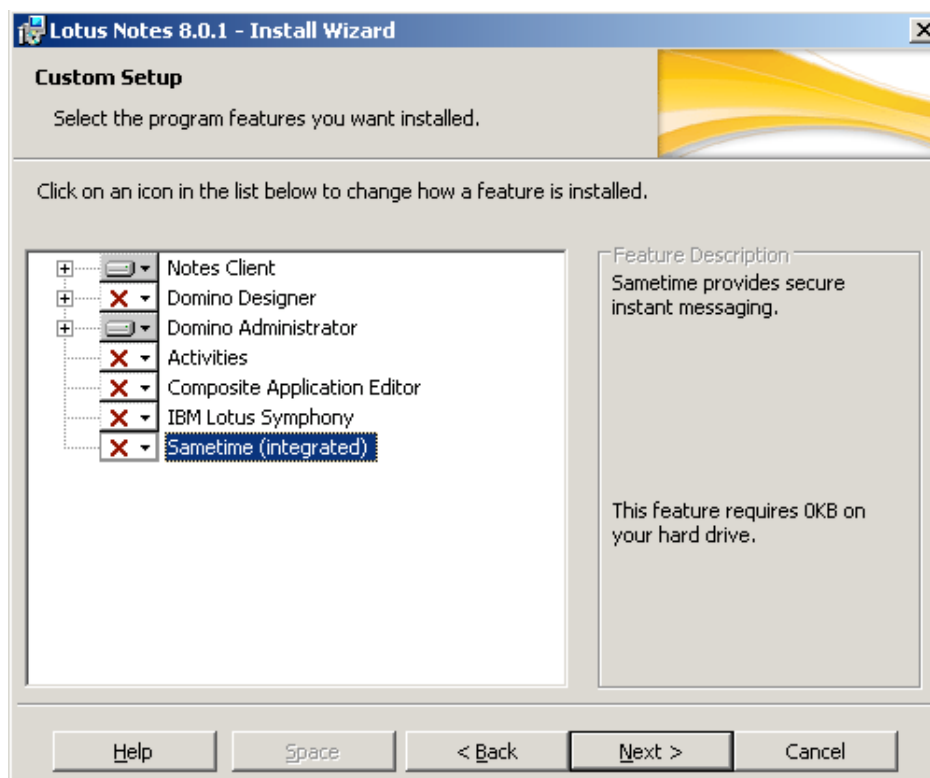
Click Next on the Welcome screen.

Agree to the license terms and click next.

Enter your name and the name of your organisation and click Next.

Accept the default installation and click Next.

Ensure that Sametime is deselected and Administrator is selected



Click Next.

Deselect Make Notes my default email program

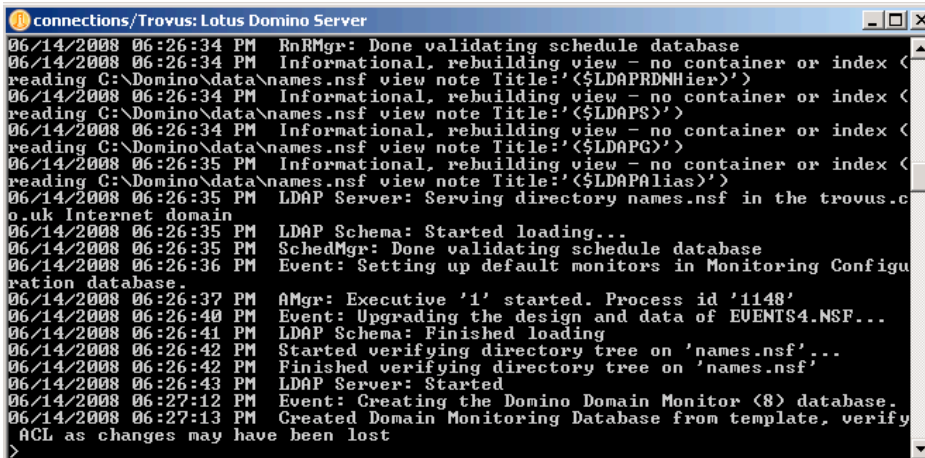
Click Install.

When completed click Finish.

## Configure Domino

Start Domino server. There should be an icon for Lotus Domino Server on your desktop. Double click this (if not, launch Domino by clicking Start -> All Programs -> Lotus Applications -> Lotus Domino Server)

You should see something like this



```
connections/Trovus: Lotus Domino Server
06/14/2008 06:26:34 PM RnRMgr: Done validating schedule database
06/14/2008 06:26:34 PM Informational, rebuilding view - no container or index <
reading C:\Domino\data\names.nsf view note Title:'(<$LDAPRDMHier>)'
06/14/2008 06:26:34 PM Informational, rebuilding view - no container or index <
reading C:\Domino\data\names.nsf view note Title:'(<$LDAPS>)'
06/14/2008 06:26:34 PM Informational, rebuilding view - no container or index <
reading C:\Domino\data\names.nsf view note Title:'(<$LDAPG>)'
06/14/2008 06:26:35 PM Informational, rebuilding view - no container or index <
reading C:\Domino\data\names.nsf view note Title:'(<$LDAPAlias>)'
06/14/2008 06:26:35 PM LDAP Server: Serving directory names.nsf in the trovus.c
o.uk Internet domain
06/14/2008 06:26:35 PM LDAP Schema: Started loading...
06/14/2008 06:26:35 PM SchedMgr: Done validating schedule database
06/14/2008 06:26:36 PM Event: Setting up default monitors in Monitoring Configu
ration database.
06/14/2008 06:26:37 PM AMgr: Executive '1' started. Process id '1148'
06/14/2008 06:26:40 PM Event: Upgrading the design and data of EVENTS4.NSF...
06/14/2008 06:26:41 PM LDAP Schema: Finished loading
06/14/2008 06:26:42 PM Started verifying directory tree on 'names.nsf'...
06/14/2008 06:26:42 PM Finished verifying directory tree on 'names.nsf'...
06/14/2008 06:26:43 PM LDAP Server: Started
06/14/2008 06:27:12 PM Event: Creating the Domino Domain Monitor <8> database.
06/14/2008 06:27:13 PM Created Domain Monitoring Database from template, verify
ACL as changes may have been lost
>
```

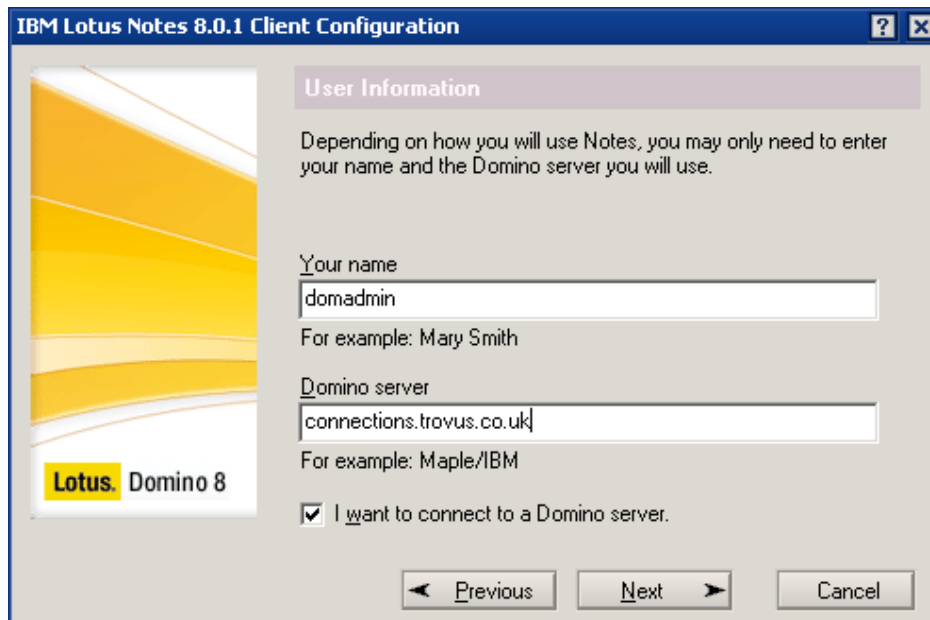
Start Domino Admin. There should be an icon on the desktop – if not it's Start -> All Programs -> Lotus Applications -> Lotus Domino Administrator 8.

On the client configuration screen click Next

Enter <dominoadmin> for Your Name and <fullyqualifiedname> for the Server

**Advanced:** if installing across multiple machines use the LDAP server's hostname

Ensure I want to connect to a Domino server is selected



**IBM Lotus Notes 8.0.1 Client Configuration**

**User Information**

Depending on how you will use Notes, you may only need to enter your name and the Domino server you will use.

Your name  
domadmin  
For example: Mary Smith

Domino server  
connections.trovus.co.uk  
For example: Maple/IBM

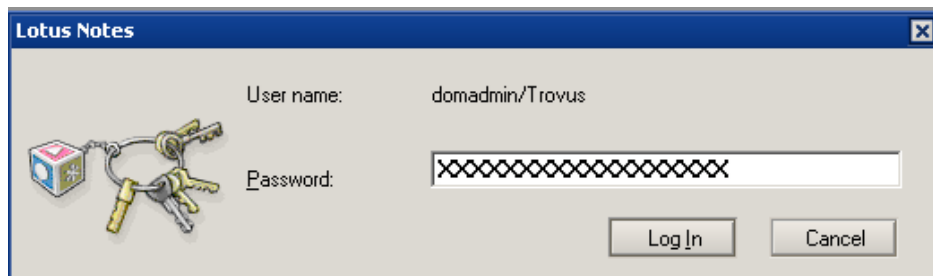
☒ I want to connect to a Domino server.

< Previous    Next >    Cancel

Click Next



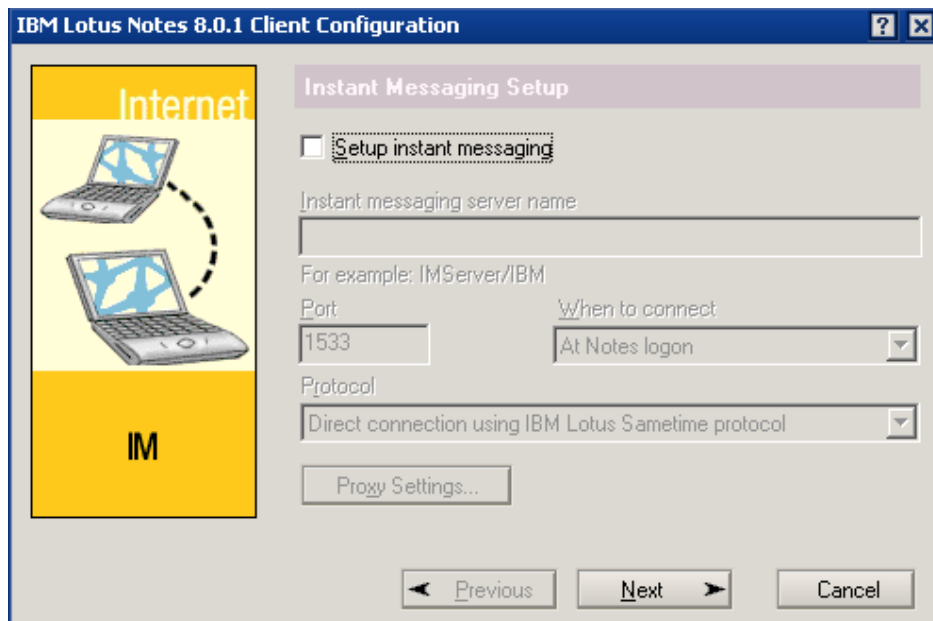
Enter <dominopwd> when prompted



The image shows the Lotus Notes login dialog box. It has a blue title bar with the text "Lotus Notes". On the left, there is an icon of a keychain with a blue cube and several keys. To the right of the icon, the "User name:" field contains the text "domadmin/Trovus". Below that, the "Password:" field is a text box filled with 16 "X" characters. At the bottom right, there are two buttons: "Log In" and "Cancel".

Click Log In

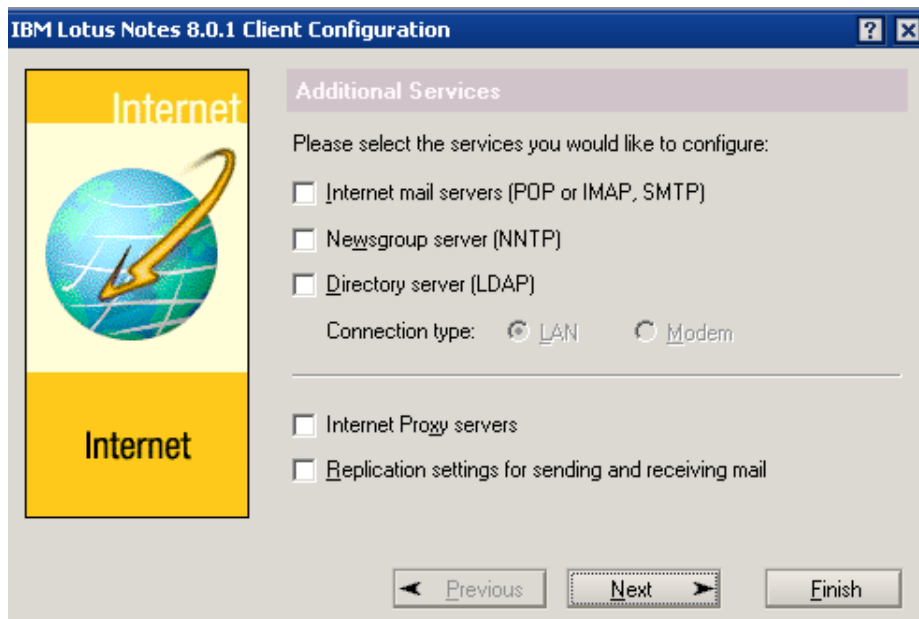
Deselect Setup instant messaging



The image shows the "IBM Lotus Notes 8.0.1 Client Configuration" dialog box. It has a blue title bar with the text "IBM Lotus Notes 8.0.1 Client Configuration". On the left, there is a yellow panel with the word "Internet" at the top, an illustration of two laptops connected by a dashed line, and the letters "IM" at the bottom. The main area is titled "Instant Messaging Setup" and contains a checkbox labeled "Setup instant messaging" which is currently unchecked. Below the checkbox, there is a text field for "Instant messaging server name" with the example "IMServer/IBM" below it. There is a "Port" field with the value "1533" and a "When to connect" dropdown menu with the value "At Notes logon". There is also a "Protocol" dropdown menu with the value "Direct connection using IBM Lotus Sametime protocol". At the bottom of the main area is a "Proxy Settings..." button. At the very bottom of the dialog box are three buttons: "Previous", "Next", and "Cancel".

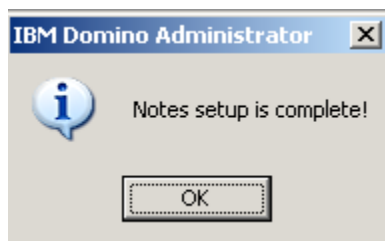
Click Next

Leave everything deselected.

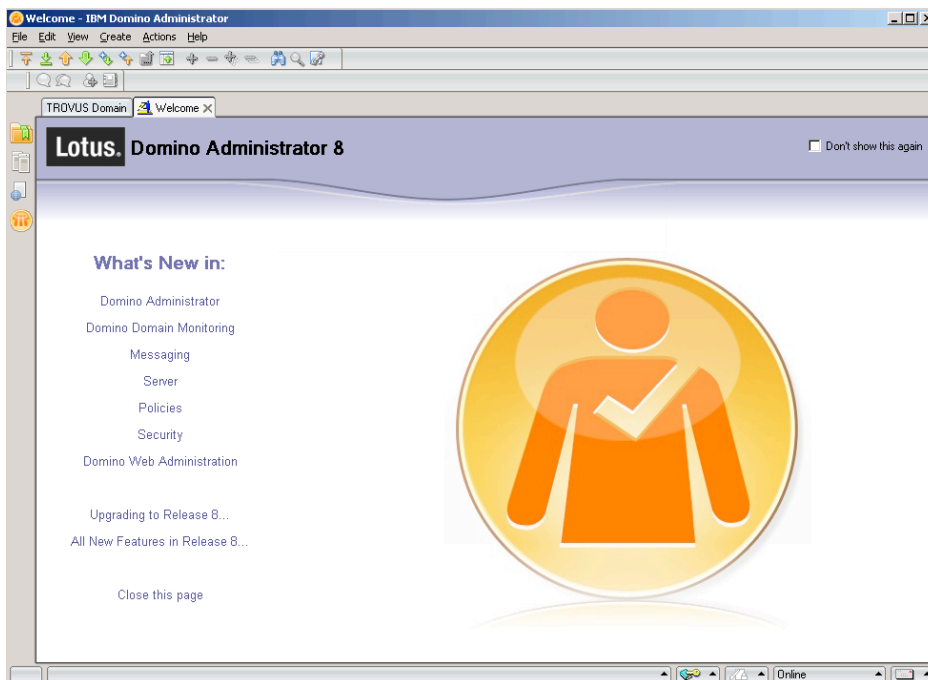


Click Next.

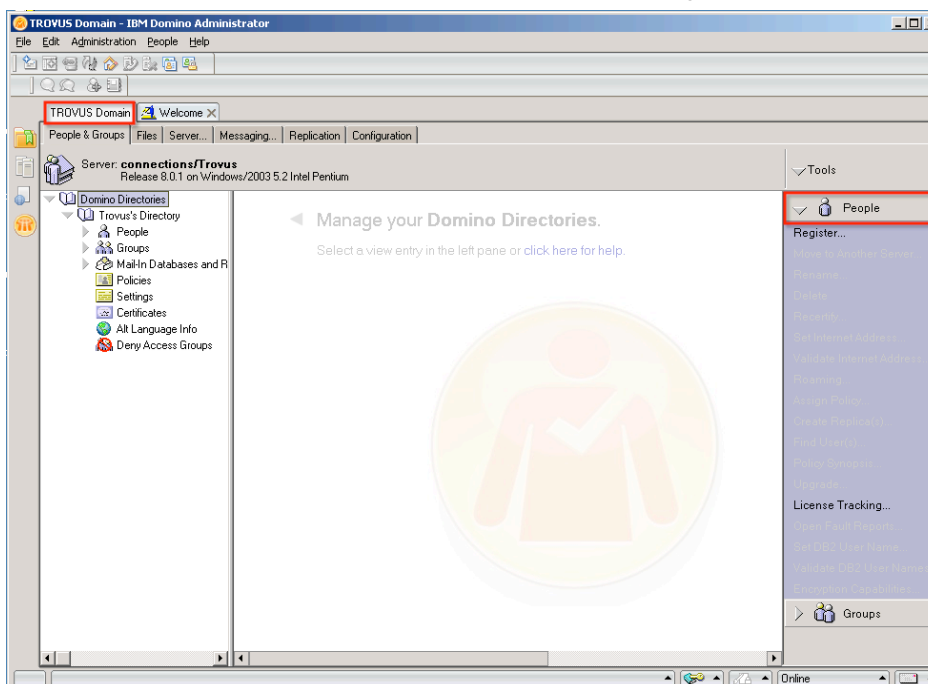
Click OK when setup is complete



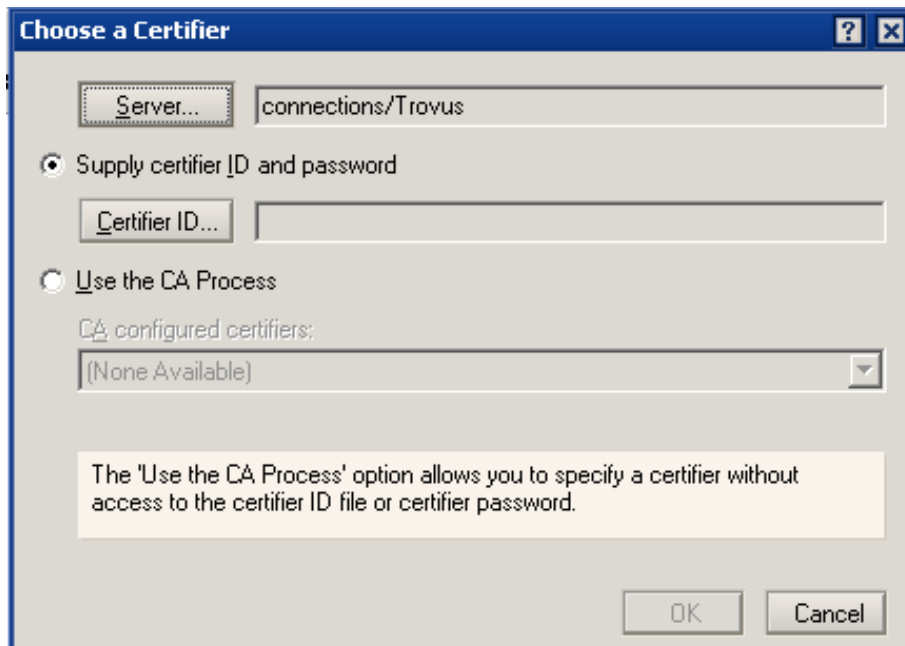
You will see this screen



Click the domain tab next to Welcome and click People on the right hand side.

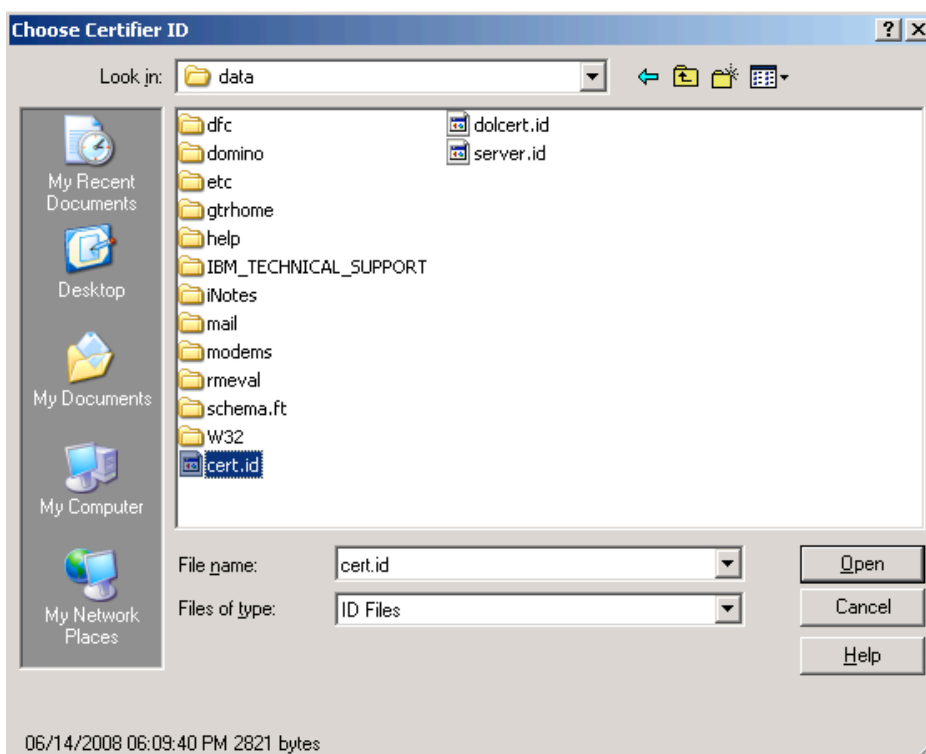


Click Register under People on the right hand side. You will see this popup:



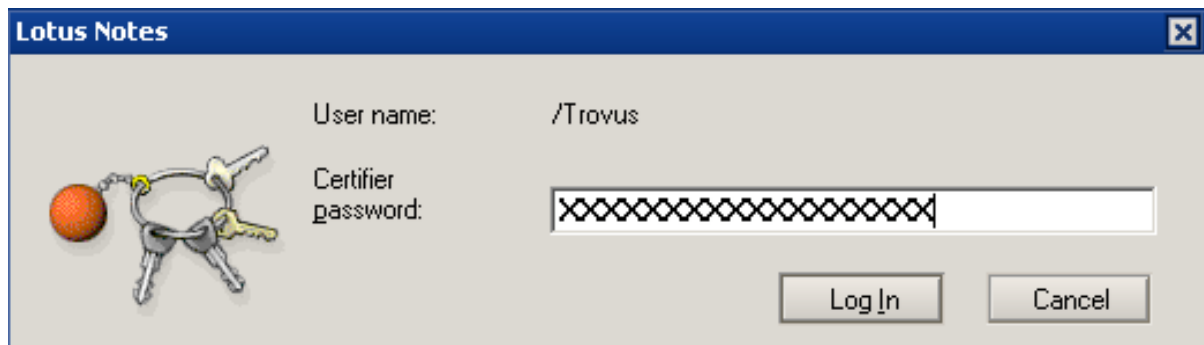
Press the Certifier ID... button

Navigate to <dominodata> and select cert.id



Click Open and click OK.

Enter <orgpwd> when prompted

A screenshot of the Lotus Notes login dialog box. The title bar is blue with the text "Lotus Notes" and a close button. The main area has a light gray background. On the left, there is an illustration of a keychain with a red ball and several keys. To the right of the illustration, the text "User name:" is followed by the text "/Trovus". Below this, the text "Certifier password:" is followed by a password field containing a series of diamond-shaped characters. At the bottom right, there are two buttons: "Log In" and "Cancel".

Lotus Notes

User name: /Trovus

Certifier password: [password field]

Log In Cancel

Click Log In

Select the check box Do not show this warning for this certifier ID in the future

A screenshot of the "Certifier Recovery Information Warning" dialog box. The title bar is blue with the text "Certifier Recovery Information Warning" and a close button. The main area has a light gray background. The text inside reads: "The certifier ID you have chosen does not contain recovery information. It is recommended you add at least three Recovery Authorities to this certifier ID. To add Recovery Authorities:" followed by a numbered list: "1. On the Configuration Tab, click Certification." and "2. Click 'Edit Recovery Information'." Below the list, it says: "Until this action is taken, you will not have the ability to recover password information for any ID created with this certifier ID". At the bottom, there is a checked checkbox followed by the text "Do not show this warning for this certifier ID in the future". At the very bottom, there is an "OK" button.

Certifier Recovery Information Warning

The certifier ID you have chosen does not contain recovery information. It is recommended you add at least three Recovery Authorities to this certifier ID. To add Recovery Authorities:

1. On the Configuration Tab, click Certification.
2. Click 'Edit Recovery Information'.

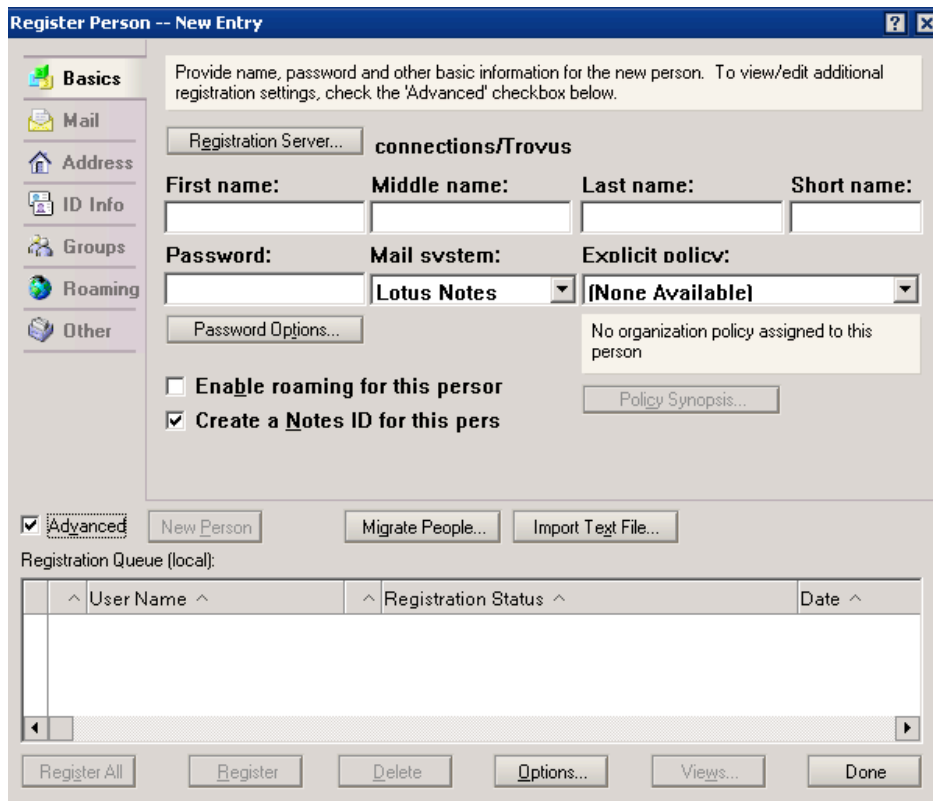
Until this action is taken, you will not have the ability to recover password information for any ID created with this certifier ID

☒ Do not show this warning for this certifier ID in the future

OK

Click OK

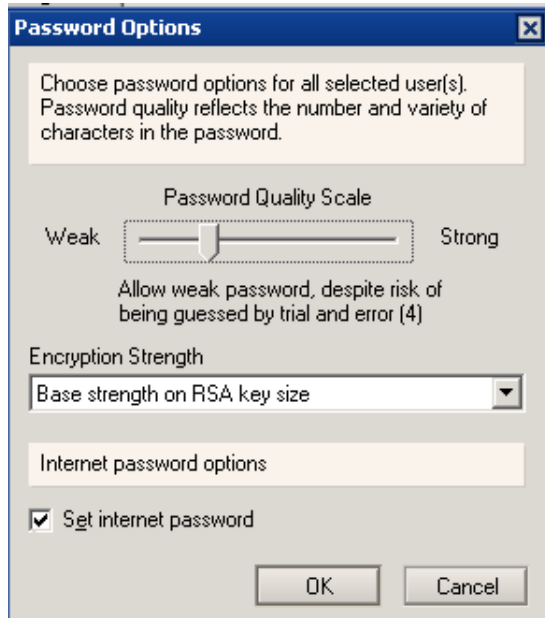
Select Advanced (bottom left)



The 'Register Person -- New Entry' dialog box is shown. It has a sidebar on the left with tabs: Basics, Mail, Address, ID Info, Groups, Roaming, and Other. The 'Basics' tab is selected. The main area contains fields for 'First name:', 'Middle name:', 'Last name:', and 'Short name:'. Below these are 'Password:', 'Mail system:' (set to 'Lotus Notes'), and 'Explicit policy:' (set to '(None Available)'). There are checkboxes for 'Enable roaming for this person' and 'Create a Notes ID for this pers'. At the bottom, there is a 'Registration Queue (local):' table with columns 'User Name', 'Registration Status', and 'Date'. The 'Advanced' checkbox is checked. Buttons at the bottom include 'Register All', 'Register', 'Delete', 'Options...', 'Views...', and 'Done'.

Click Password options

Set the Password Quality scale to something appropriate for your organisation and ensure that Set internet password is checked.



The 'Password Options' dialog box is shown. It contains a 'Password Quality Scale' slider ranging from 'Weak' to 'Strong'. Below the slider is a checkbox for 'Allow weak password, despite risk of being guessed by trial and error (4)'. There is a section for 'Encryption Strength' with a dropdown menu set to 'Base strength on RSA key size'. Below that is a section for 'Internet password options' with a checkbox for 'Set internet password' which is checked. Buttons at the bottom are 'OK' and 'Cancel'.

Click OK.

Enter the names of your users. Set your short name to the name you want people to use to log into Connections.

Register Person -- New Entry

Basics

Mail

Address

ID Info

Groups

Roaming

Other

Provide name, password and other basic information for the new person. To view/edit additional registration settings, check the 'Advanced' checkbox below.

Registration Server...

connections/Trovus

First name:

Jon

Middle name:

Last name:

Mell

Short name:

ion.mell

Password:

passw0rd

Mail system:

Lotus Notes

Explicit policy:

(None Available)

Password Options...

No organization policy assigned to this person

Policy Synopsis...

☐ Enable roaming for this persor

☒ Create a Notes ID for this pers

☒ Advanced

New Person

Migrate People...

Import Text File...

☒

☐

Registration Queue (local):

	^ User Name ^	^ Registration Status ^	Date ^

Register All

Register

Delete

Options...

Views...

Done

Click Address on the left hand side

Register Person -- New Entry

Mail Internet Address Information

**Internet address** Jon.Mell@trovus.co.uk **Internet Domain** trovus.co.uk

**Address name format** FirstName LastName **Separator** None

Supply internet address format settings for the selected people or person. The Internet address is created using the person's name, the internet domain and internet address format components. It must be unique in the address book.

☒ Advanced New Person Migrate People... Import Text File... [OK] [Cancel]

Registration Queue (local):

^	User Name ^	Registration Status ^	Date ^

Register All Register Delete Options... Views... Done

Ensure you have an entry for Internet Address (it does not have to be a valid email address). All users must have an Internet Address or they will not be able to log on.



Click the Green check button

**Register Person -- New Entry**

Mail Internet Address Information

Internet address:

Internet Domain:

Address name format:

Separator:

Supply internet address format settings for the selected people or person. The Internet address is created using the person's name, the internet domain and internet address format components. It must be unique in the address book.

☒ Advanced           

Registration Queue (local):

^	User Name ^	Registration Status ^	Date ^
8	Mell, Jon	Ready for registration	06/14/2008

Note this does not add your user to the directory. It adds it to the queue to be added.  
Repeat adding until you have your users.

**Register Person -- New Entry**

Mail Internet Address Information

Internet address:

Internet Domain:

Address name format:

Separator:

Supply internet address format settings for the selected people or person. The Internet address is created using the person's name, the internet domain and internet address format components. It must be unique in the address book.

☒ Advanced           

Registration Queue (local):

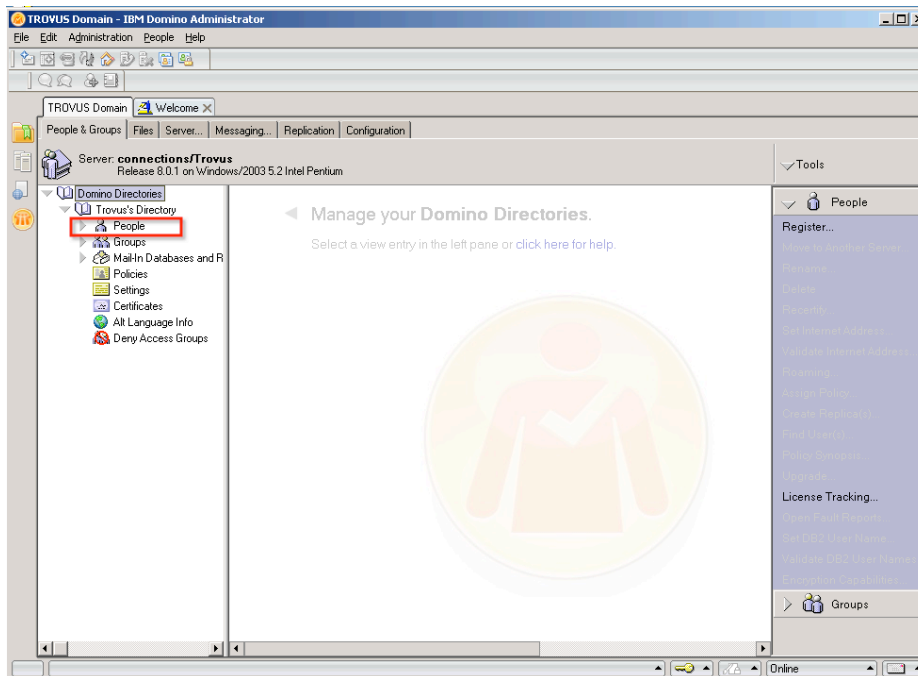
^	User Name ^	Registration Status ^	Date ^
8	Mell, Jon	Ready for registration	06/14/2008
8	Craven, Caspar	Ready for registration	06/14/2008
8	Charvet, Edward	Ready for registration	06/14/2008

Click Register All

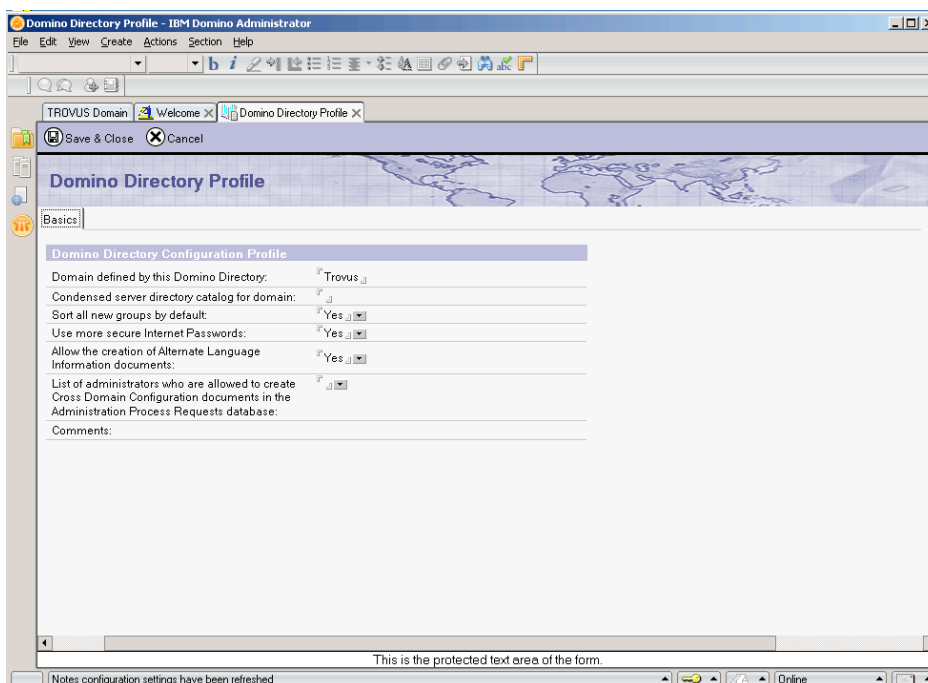
Click OK when notified the process is complete.

Click Done.

Click People on the Left Hand side underneath your Directory

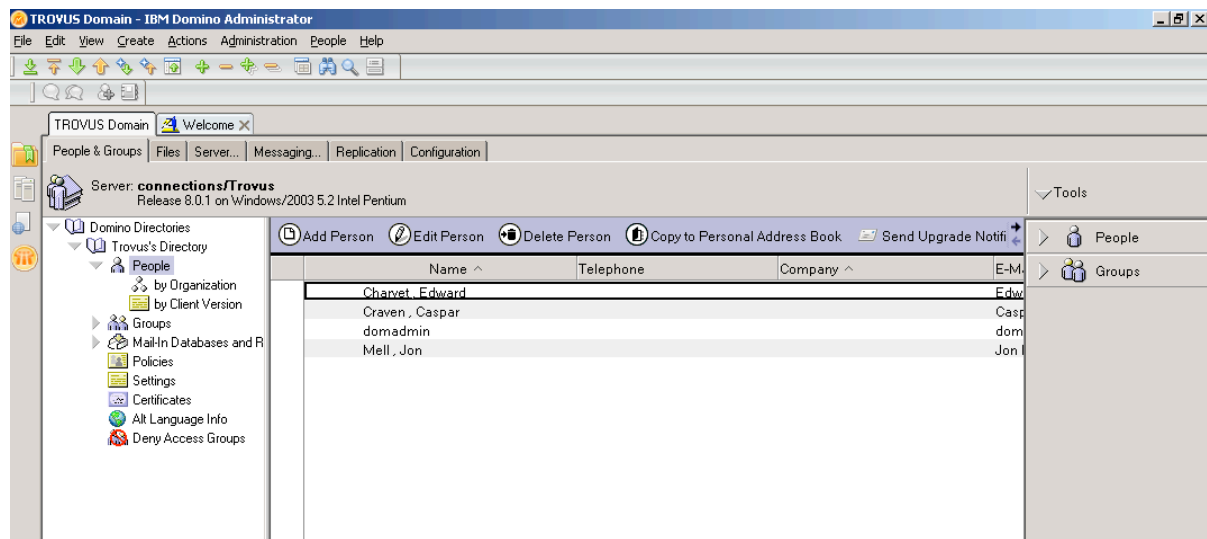


You may see a screen like this.



If so press Cancel.

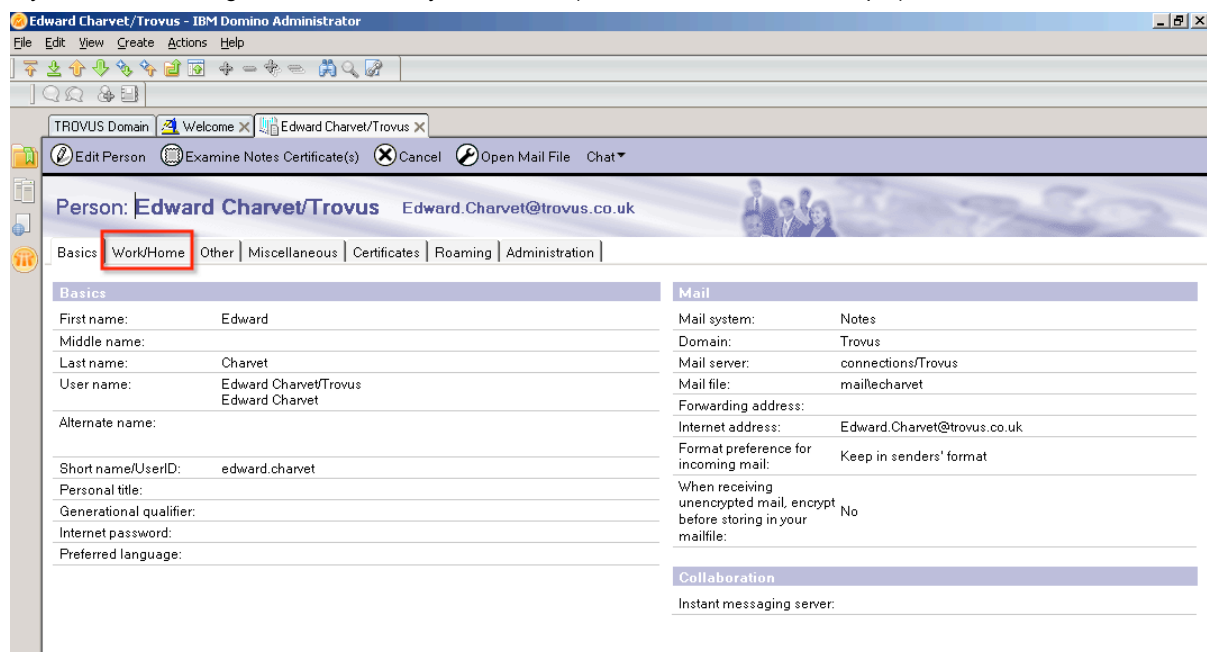
You should see <dominoadmin> and the people you registered in the client.



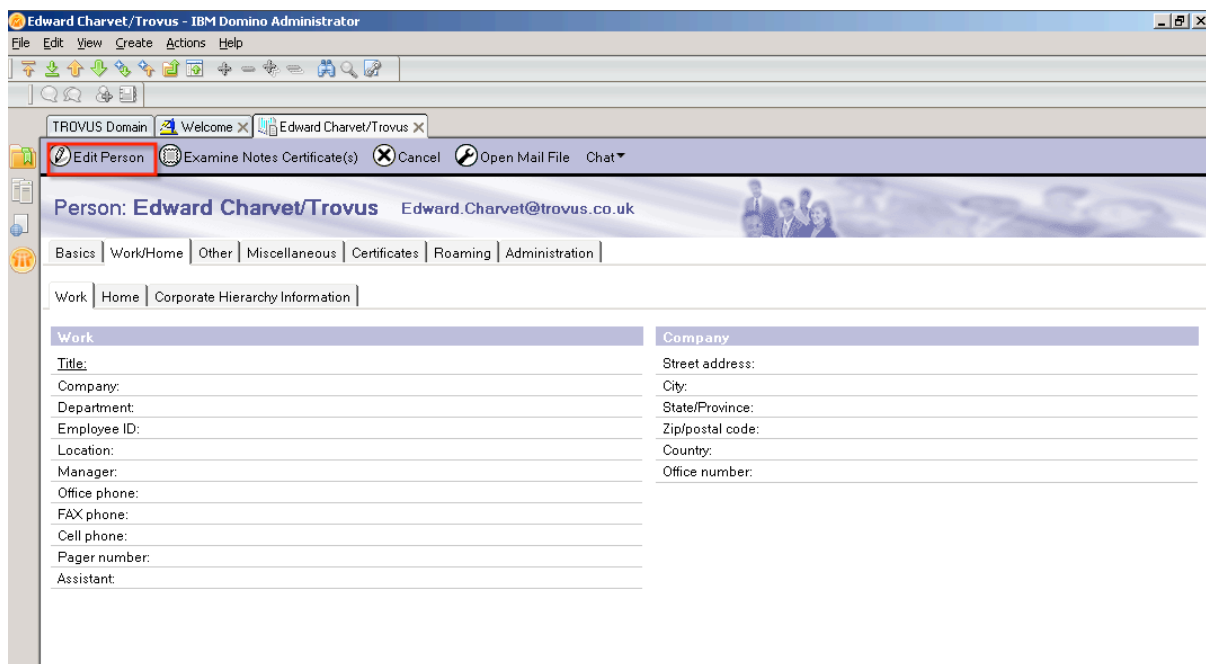
If do you not want to add organisation hierarchy you can close the client but leave the server running.

## Add Organisation Hierarchy

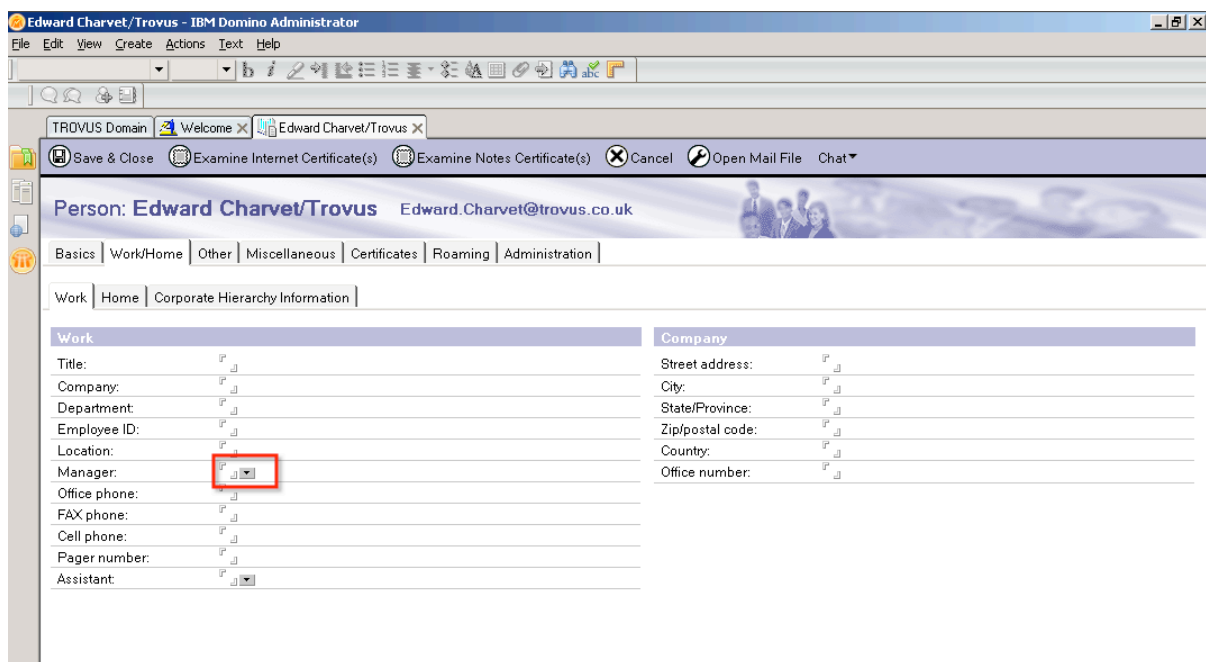
If you wish to add organisation hierarchy information (for use in Profiles for example) then double click a user



Click work/home

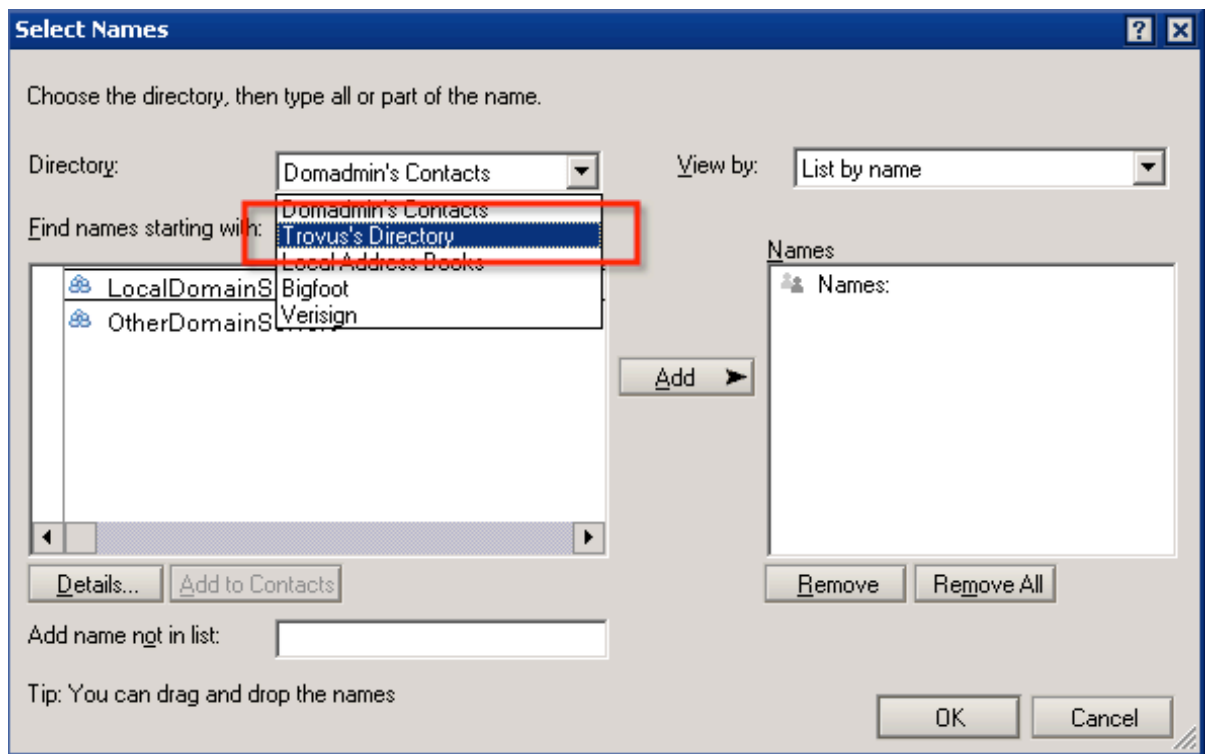


Click Edit Person

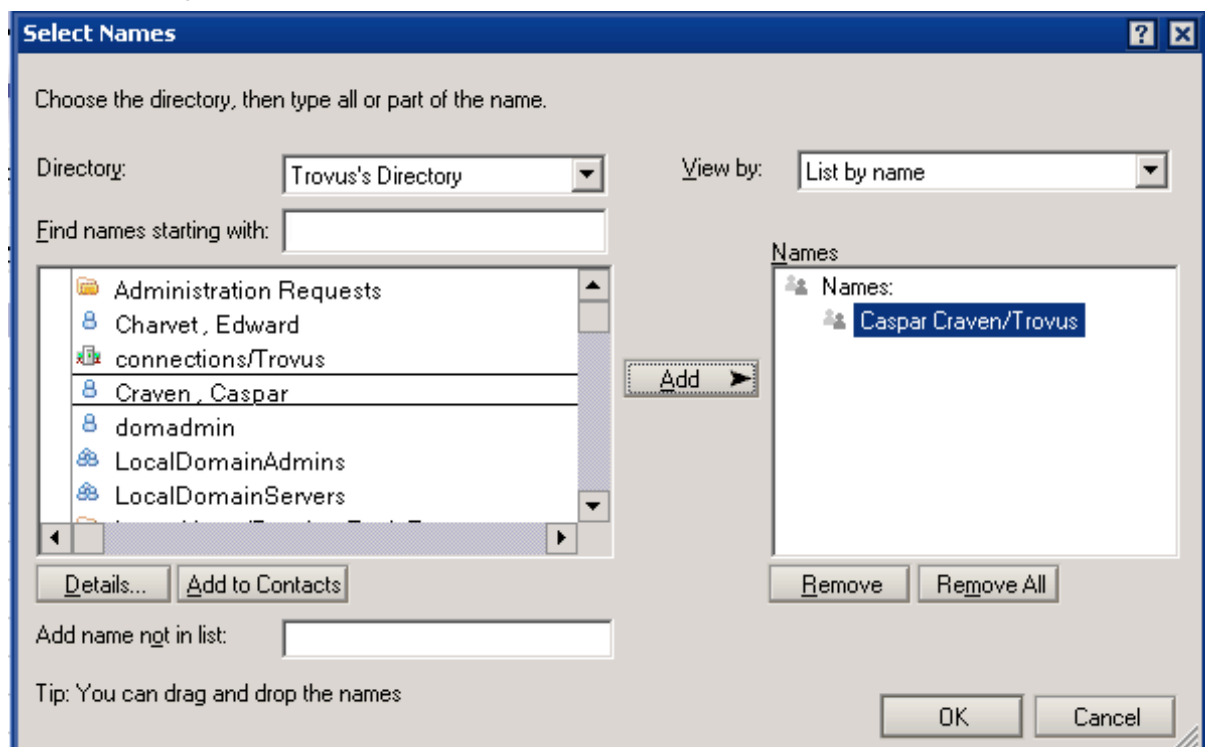


Click the arrow next to manager

In the pop-up change the Directory from <dominoadmin>'s contacts to <orgname>'s Directory



Select the manager of this user and click Add



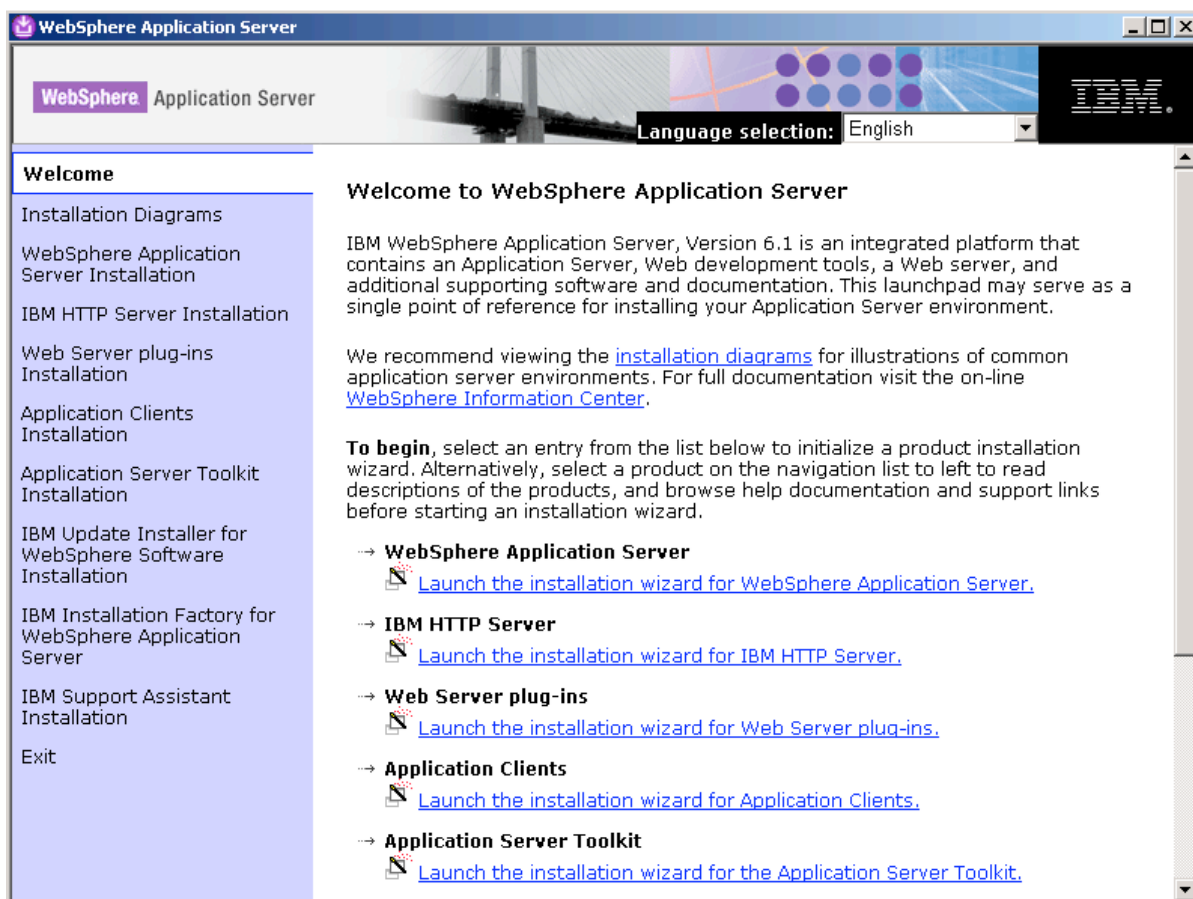
Click OK

Click Save & Close

Close the Domino Client but leave the server running.

# Install WebSphere Application Server

Run Launchpad.exe from the WebSphere Application Server 6.1 media

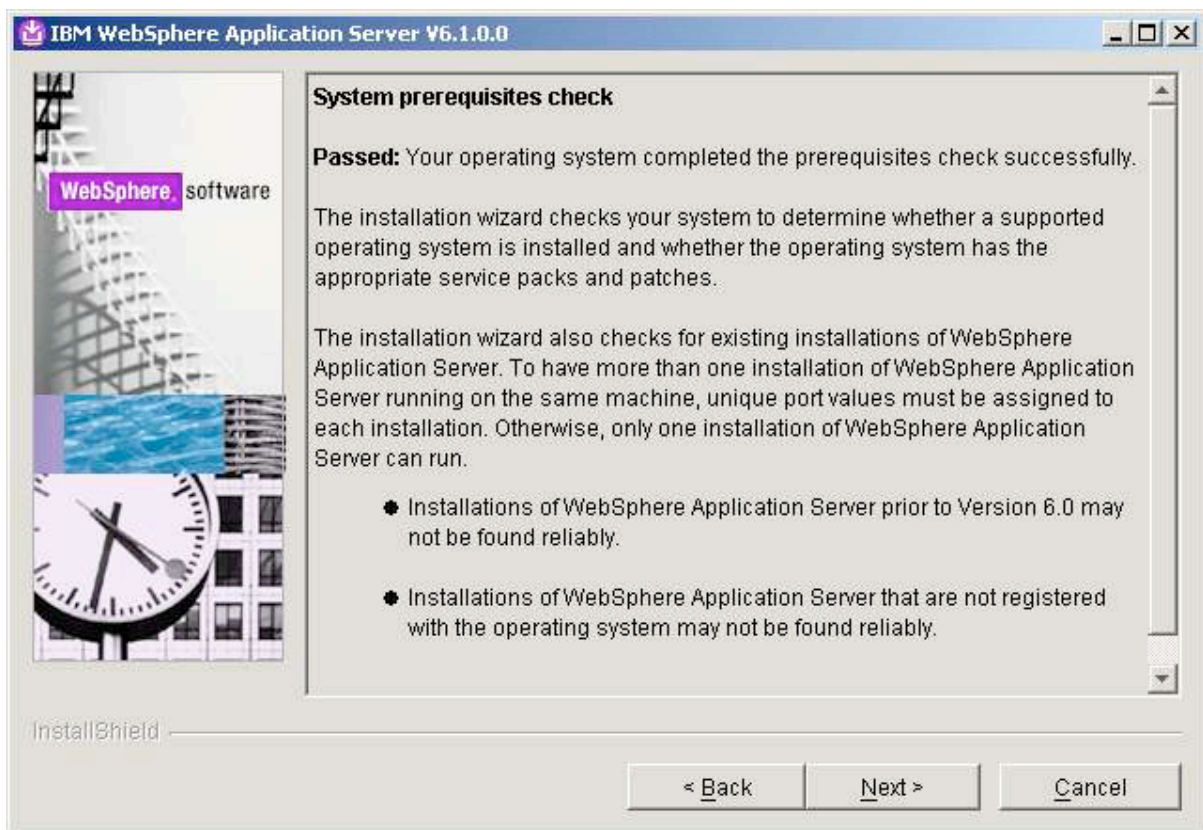


Click Launch the installation wizard for WebSphere Application Server

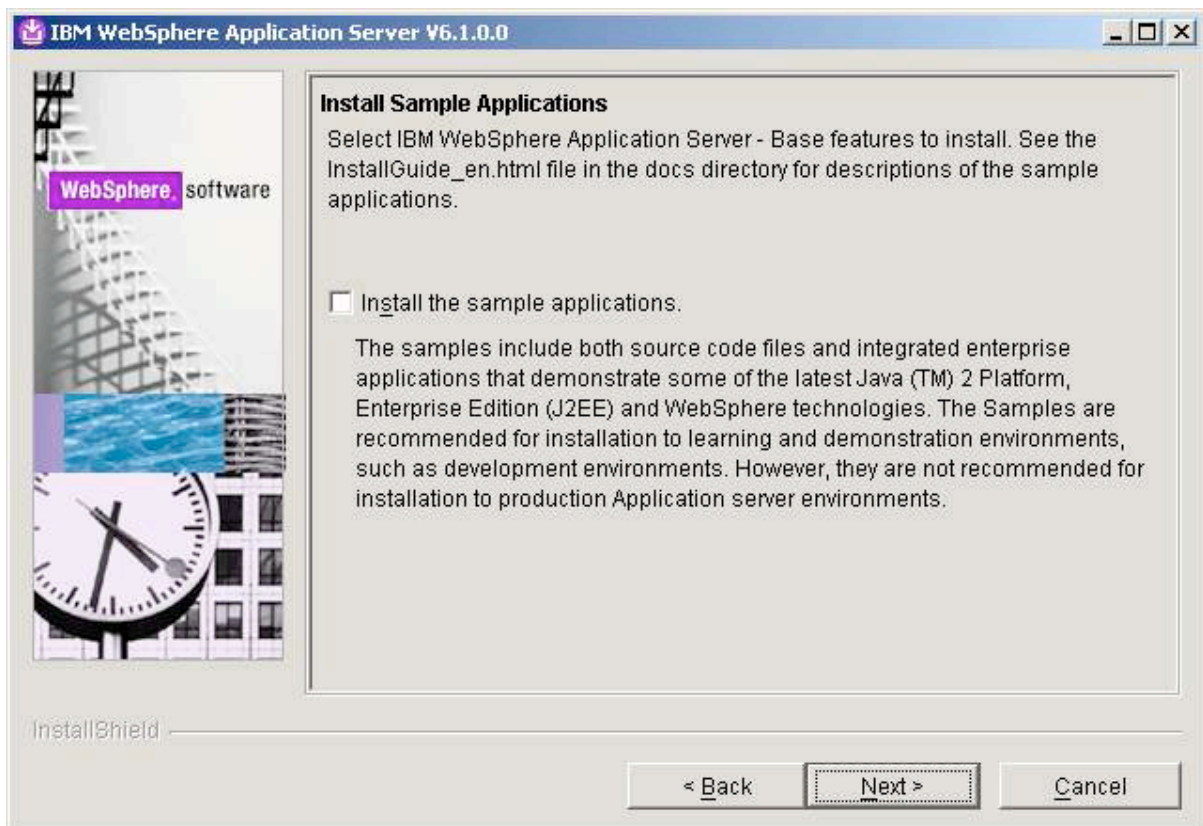
When the wizard launches click Next on the welcome screen.

Accept the license terms and click Next

Your system should then pass a Systems Prerequisites check – click Next

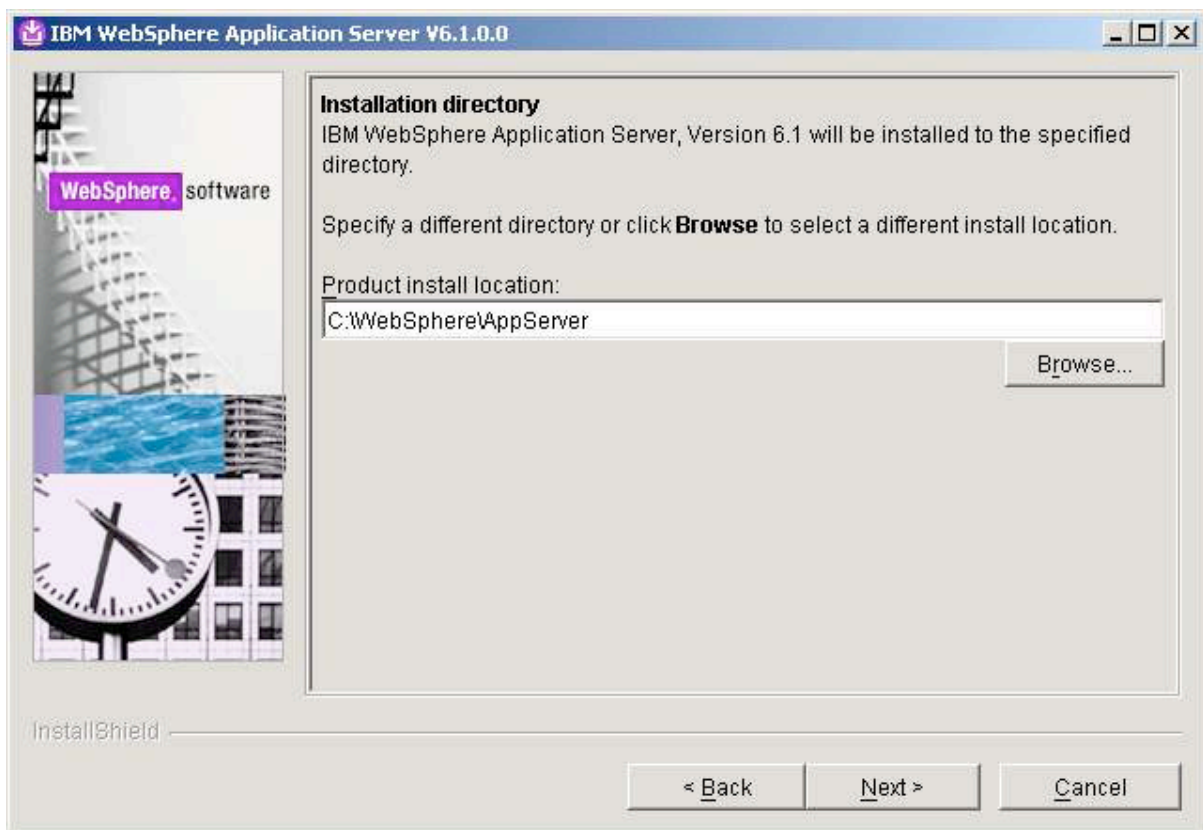


Do not choose to install the sample applications and click Next



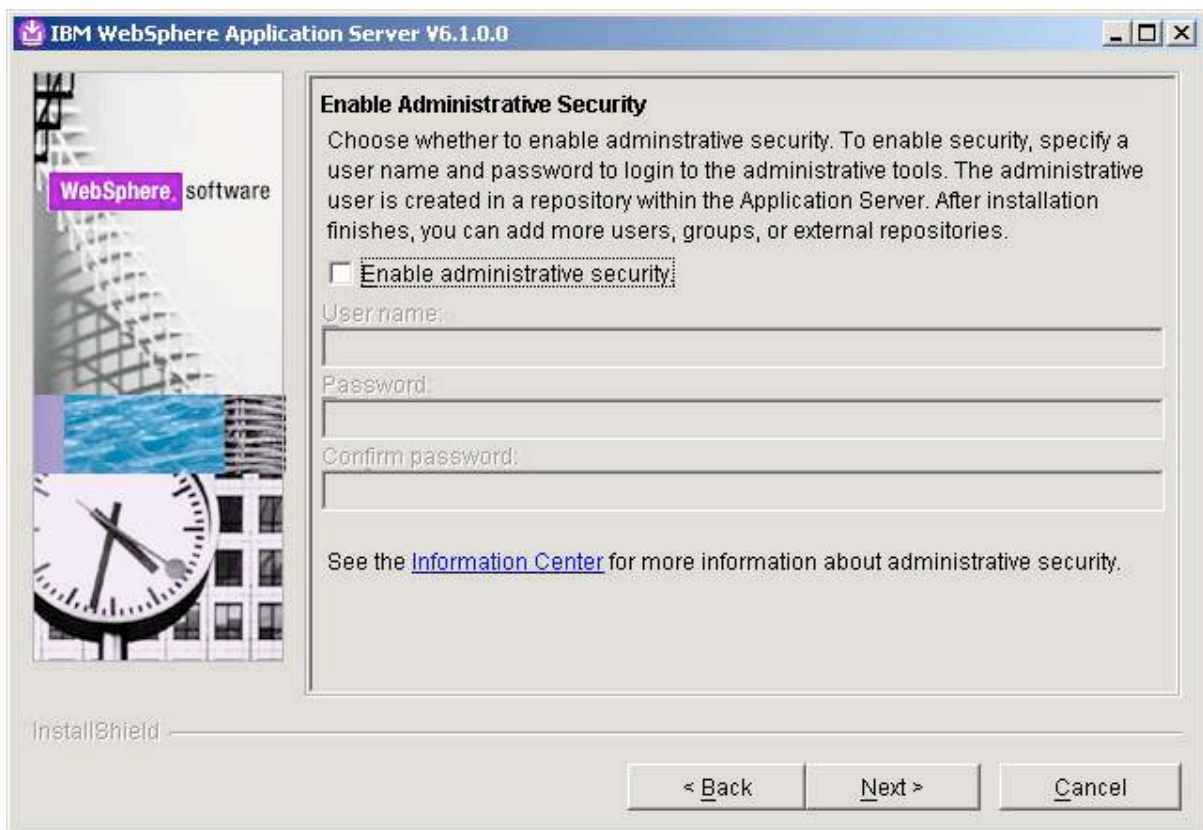


In the installation directory, you can choose something more friendly. This is <wasinstall>.

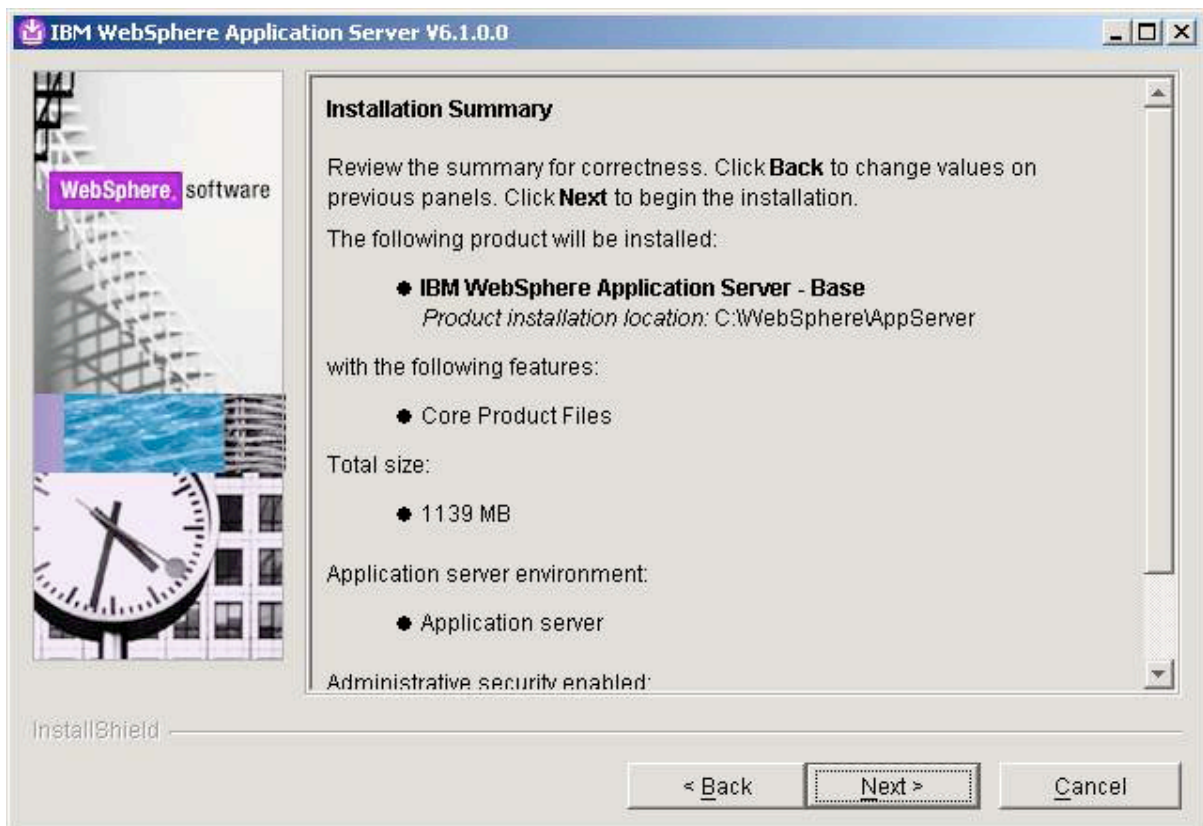


Ensure that Enable administrative security is **not** selected and click Next

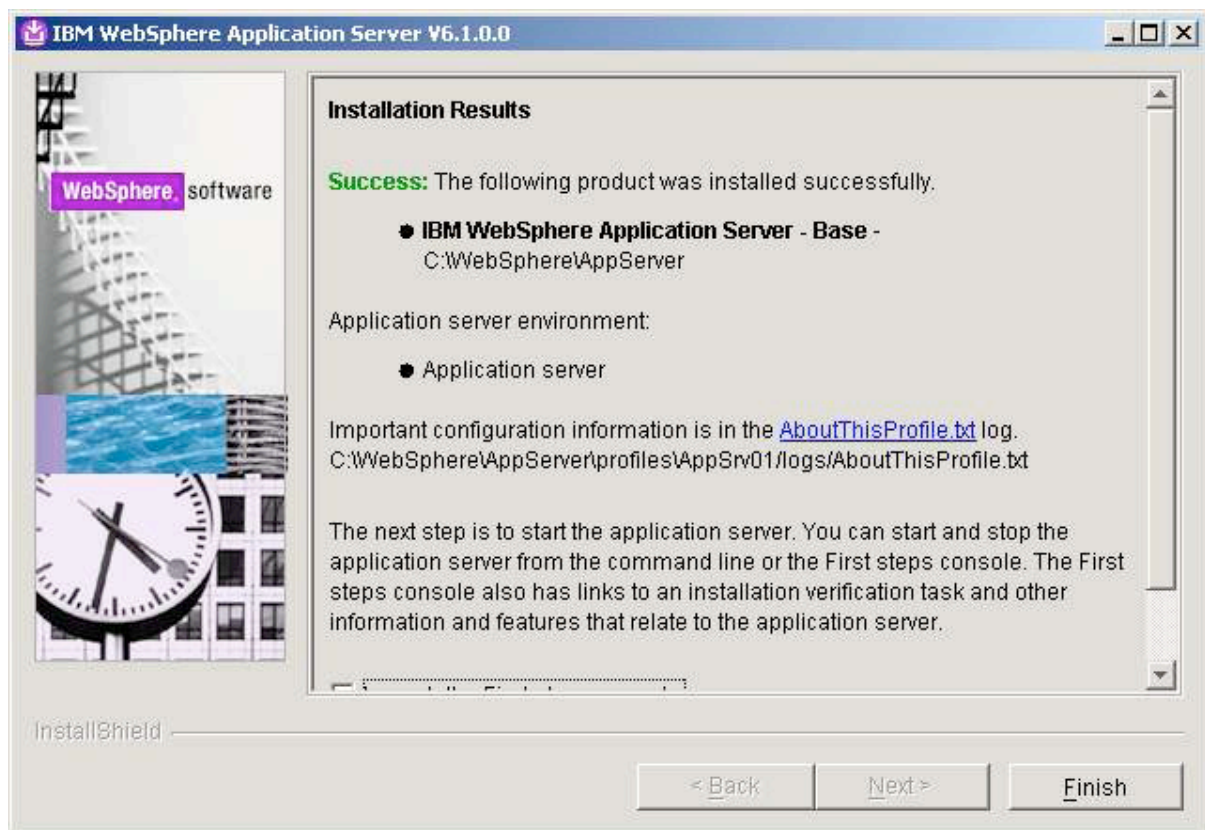




Review the installation summary and click Next



You should see the following after a successful install. Press Finish.



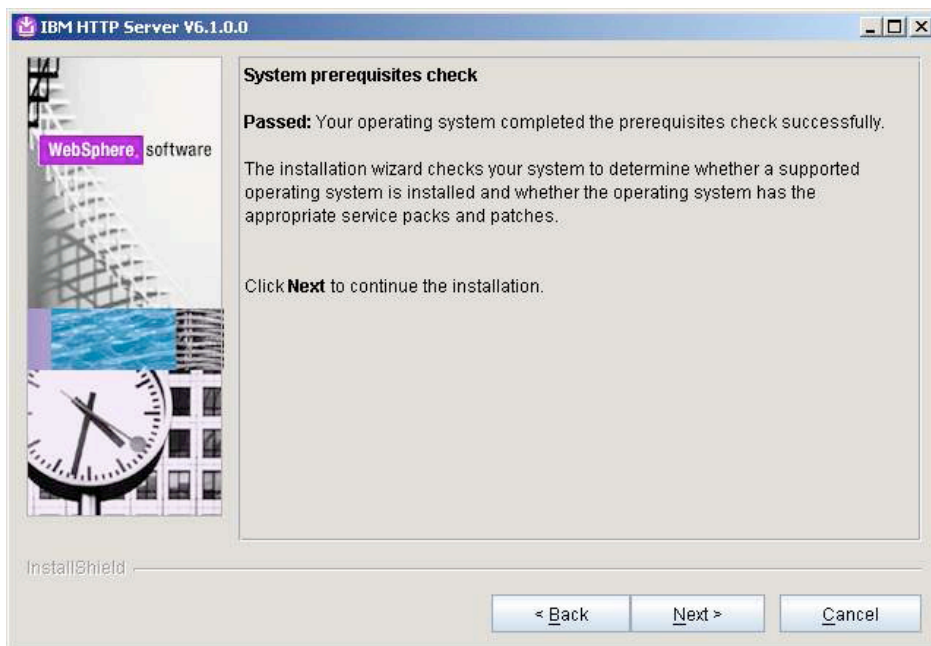
## Install HTTP Server

Now on the Launchpad click Launch the installation wizard for IBM HTTP Server. This will ask you for the location of the WebSphere Supplemental disk you should have downloaded or received with your Lotus Connections media.

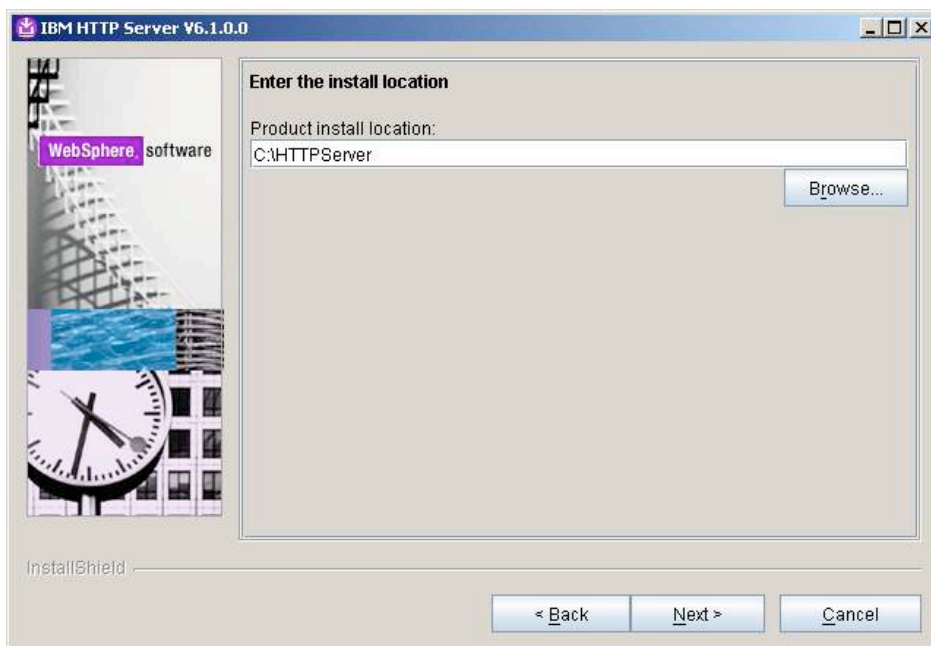
Once the wizard launches click Next on the Welcome screen.

Accept the license terms and click next.

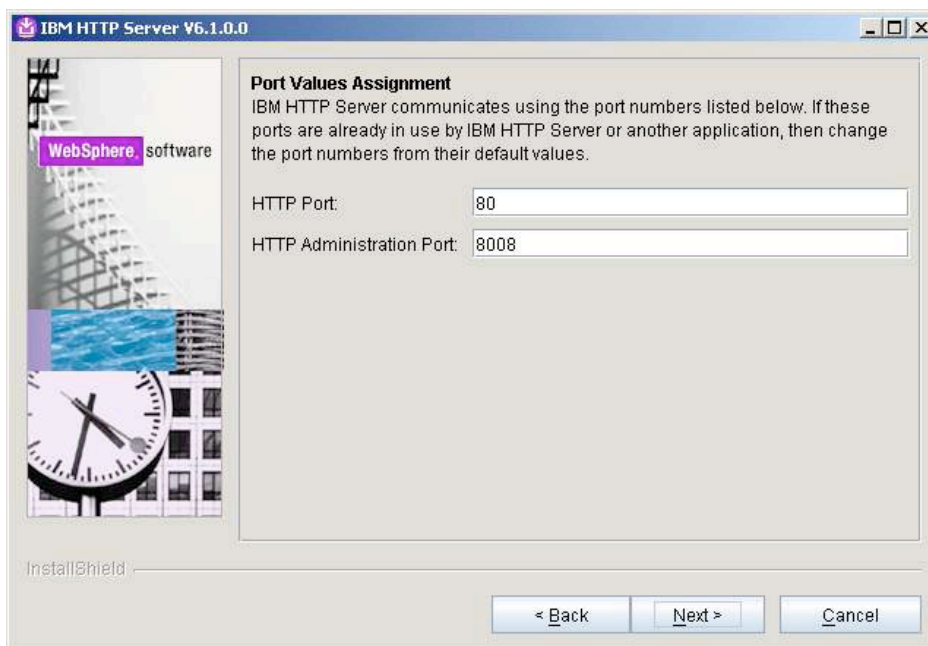
Your system should then pass a System Prerequisites check - click Next



Accept the default installation or change it to something easier. This is `<httpinstall>`. Press Next.



Leave the default port settings and press next.



The screenshot shows the 'Port Values Assignment' window of the IBM HTTP Server V6.1.0.0 installer. The window has a title bar with the product name and version. On the left is a sidebar with the WebSphere logo and a graphic of a clock and building. The main area contains the title 'Port Values Assignment' and a paragraph explaining that the user can change default port numbers if they are already in use. Below this, there are two input fields: 'HTTP Port' with the value '80' and 'HTTP Administration Port' with the value '8008'. At the bottom, there are three buttons: '< Back', 'Next >', and 'Cancel'. The 'InstallShield' logo is visible in the bottom left corner of the main area.

IBM HTTP Server V6.1.0.0

WebSphere software

**Port Values Assignment**  
IBM HTTP Server communicates using the port numbers listed below. If these ports are already in use by IBM HTTP Server or another application, then change the port numbers from their default values.

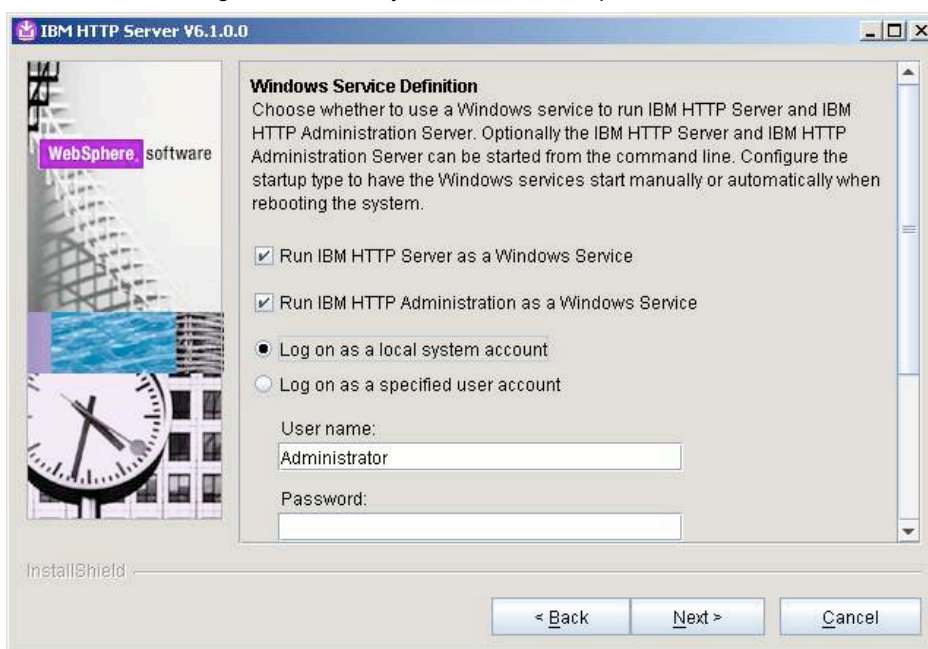
HTTP Port: 80

HTTP Administration Port: 8008

InstallShield

< Back Next > Cancel

Set the service to log on as a local system account and press next



The screenshot shows the 'Windows Service Definition' window of the IBM HTTP Server V6.1.0.0 installer. The window has a title bar with the product name and version. On the left is a sidebar with the WebSphere logo and a graphic of a clock and building. The main area contains the title 'Windows Service Definition' and a paragraph explaining that the user can choose whether to use a Windows service to run the IBM HTTP Server and IBM HTTP Administration Server. Below this, there are two checked checkboxes: 'Run IBM HTTP Server as a Windows Service' and 'Run IBM HTTP Administration as a Windows Service'. There are also two radio buttons: 'Log on as a local system account' (selected) and 'Log on as a specified user account'. Below the radio buttons, there are input fields for 'User name' (containing 'Administrator') and 'Password'. At the bottom, there are three buttons: '< Back', 'Next >', and 'Cancel'. The 'InstallShield' logo is visible in the bottom left corner of the main area.

IBM HTTP Server V6.1.0.0

WebSphere software

**Windows Service Definition**  
Choose whether to use a Windows service to run IBM HTTP Server and IBM HTTP Administration Server. Optionally the IBM HTTP Server and IBM HTTP Administration Server can be started from the command line. Configure the startup type to have the Windows services start manually or automatically when rebooting the system.

☒ Run IBM HTTP Server as a Windows Service

☒ Run IBM HTTP Administration as a Windows Service

☒ Log on as a local system account

☐ Log on as a specified user account

User name:  
Administrator


Password:

InstallShield

< Back Next > Cancel



Enter values for `<httpuser>` and `<httppwd>` as userid and password for HTTP Administration (eg httpadmin). This does not have to be an existing user. Click Next.



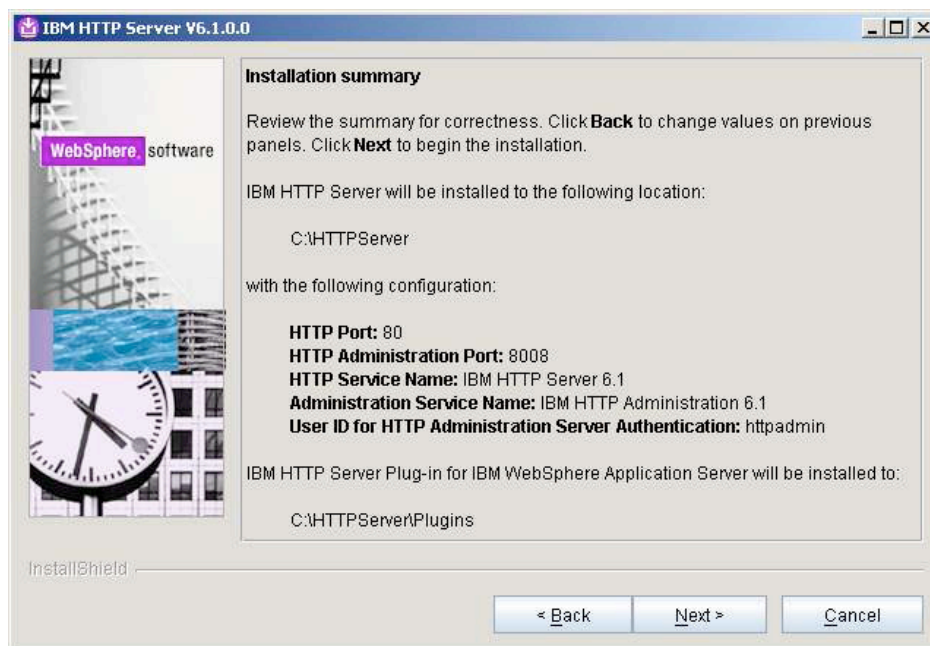
The screenshot shows the 'IBM HTTP Server V6.1.0.0' installation window. On the left is a sidebar with the 'WebSphere software' logo and a graphic of a clock and a building. The main area is titled 'HTTP Administration Server Authentication'. It contains the following text: 'Create a user ID and password to authenticate to the IBM HTTP administration server using the WebSphere Application Server administrative console. The newly-created user ID and password is encrypted and stored in the conf/admin.passwd file. You can create additional user IDs after the installation by using the httpasswd utility.' Below this text is a checkbox labeled 'Create a user ID for IBM HTTP administration server authentication', which is checked. Underneath the checkbox are three text input fields: 'User ID:' with the value 'httpadmin', 'Password:' with a masked password '\*\*\*\*\*', and 'Confirm Password:' with a masked password '\*\*\*\*\*'. At the bottom of the window are three buttons: '< Back', 'Next >', and 'Cancel'.

Leave the settings enabled to install the HTTP Server plug-in and press Next



The screenshot shows the 'IBM HTTP Server V6.1.0.0' installation window. On the left is a sidebar with the 'WebSphere software' logo and a graphic of a clock and a building. The main area is titled 'IBM HTTP Server Plug-in for IBM WebSphere Application Server'. It contains the following text: 'Silently install the plug-in using the remote installation scenario. The host name and web server definition are used when creating the default plug-in configuration file. This file is used to route requests to the Application Server. If there are multiple Application Servers, then select one of the servers and specify the machine's host name.' Below this text is a checkbox labeled 'Install the IBM HTTP Server Plug-in for IBM WebSphere Application Server', which is checked. Underneath the checkbox are two text input fields: 'Web server definition:' with the value 'webserver1', and 'Host name or IP address for the Application Server:' with the value 'connections.trovus.co.uk'. At the bottom of the window are three buttons: '< Back', 'Next >', and 'Cancel'.

Review the installation summary and press Next



Check you get a successful install message like the one below and press Finish.



Close the WebSphere Application Server launchpad.

# Updating WebSphere Application Server

We need to update to 6.0.13 and apply some fixes.

Unzip the WebSphere Update Installer you downloaded (eg `download.updii.61017.windows.ia32.zip`). This will create an `UpdateInstaller` directory.

Run `install.exe` in the `UpdateInstaller` directory.

Accept the license terms and click Next throughout the wizard to install the tool, accepting all defaults.

You should have downloaded the following files. Their current location is in the required software table at the start of the document.

6.1.0-WS-WAS-WinX32-FP0000013.pak

6.1.0-WS-PLG-WinX32-FP0000013.pak

6.1.0-WS-IHS-WinX32-FP0000013.pak

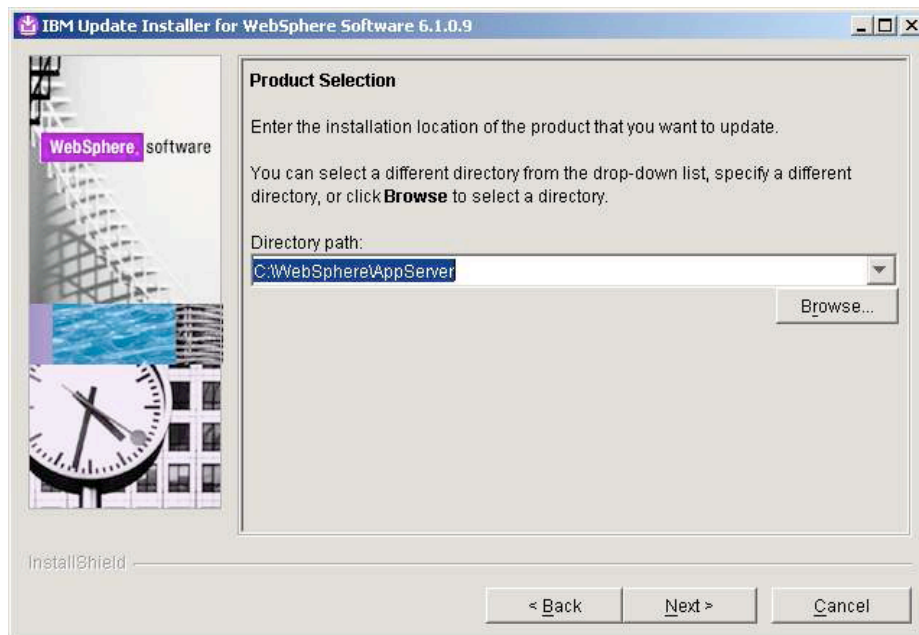
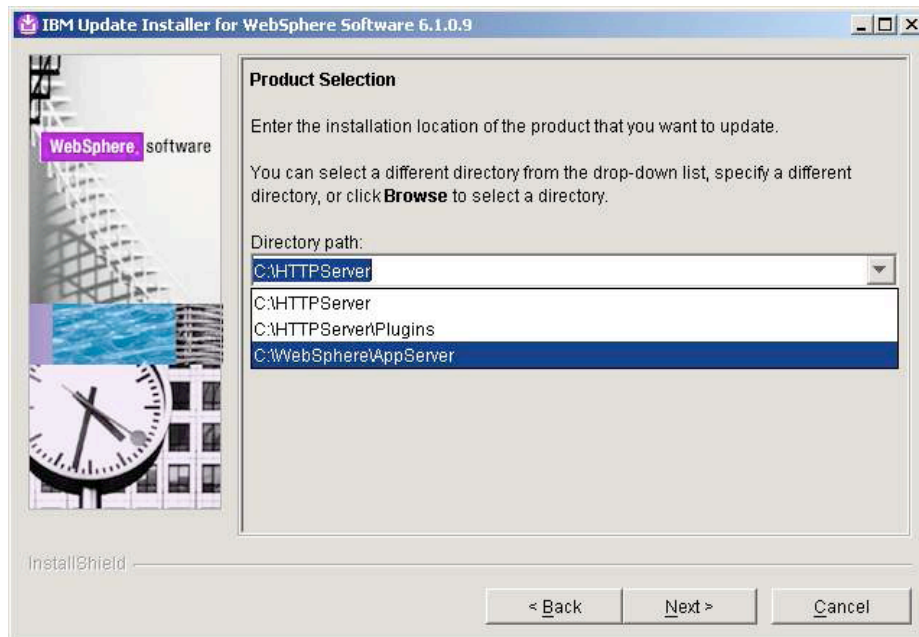
6.1.0.11-WS-WAS-IFPK60528.pak

Move these files to the maintenance directory of the update installer – eg `C:\Program Files\IBM\WebSphere\UpdateInstaller\Maintenance`

If the Update Installer did not start after installation start it by clicking Start -> IBM WebSphere -> Update Installer for WebSphere 6.1 Software -> Update Installer

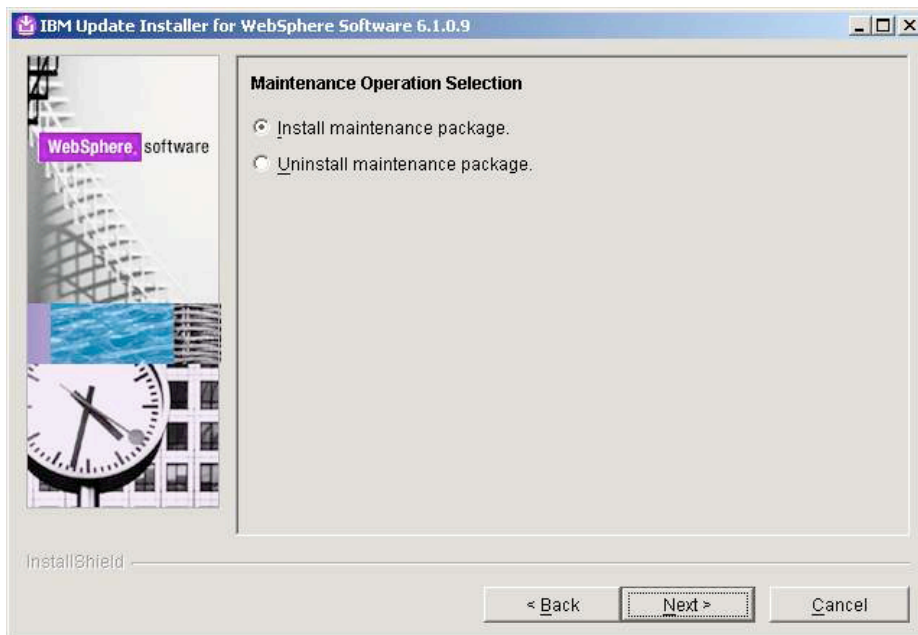
Click Next on the Welcome Screen of the wizard

Select <wasinstall> on the Product Selection screen as the Directory path and click next

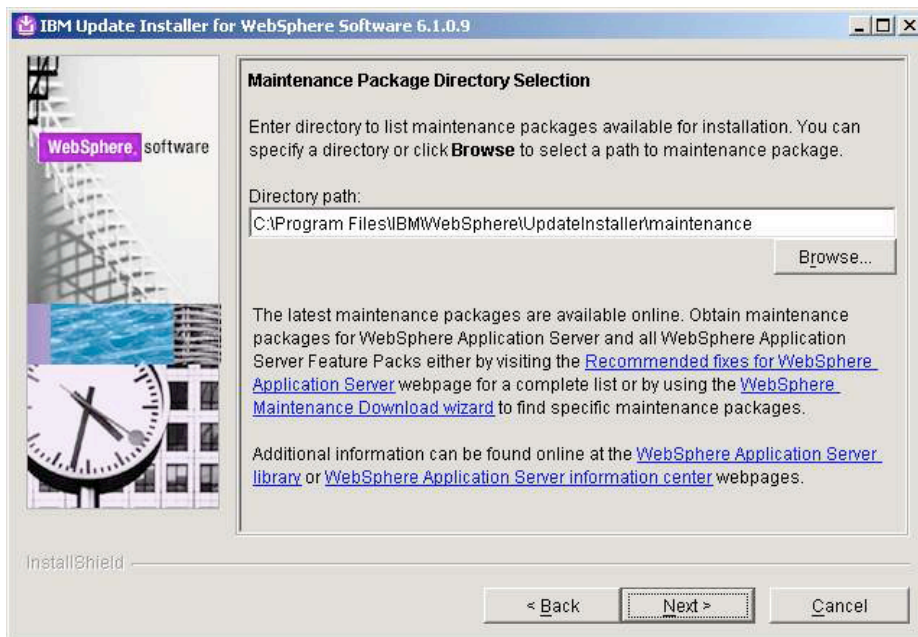




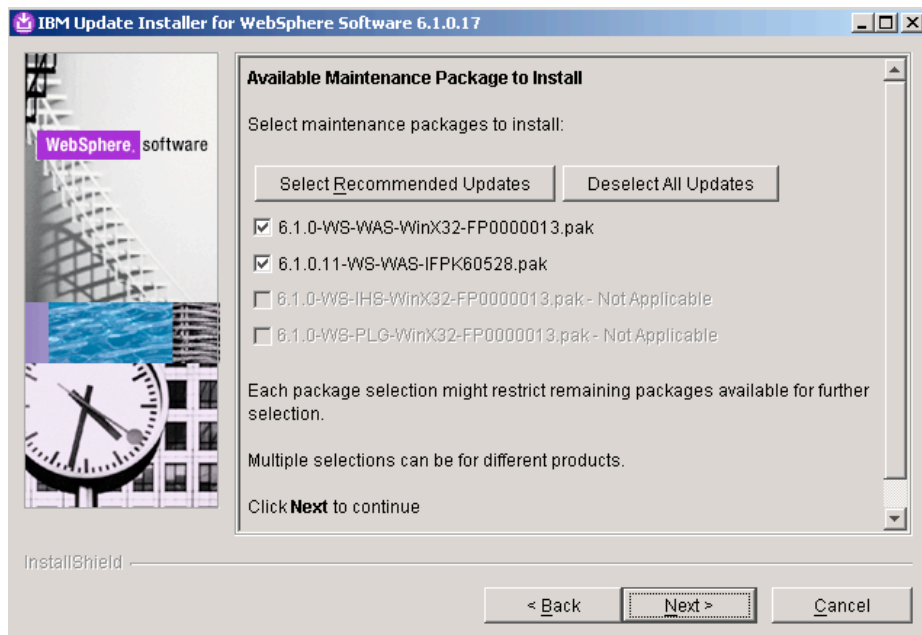
Select Install maintenance package and click Next



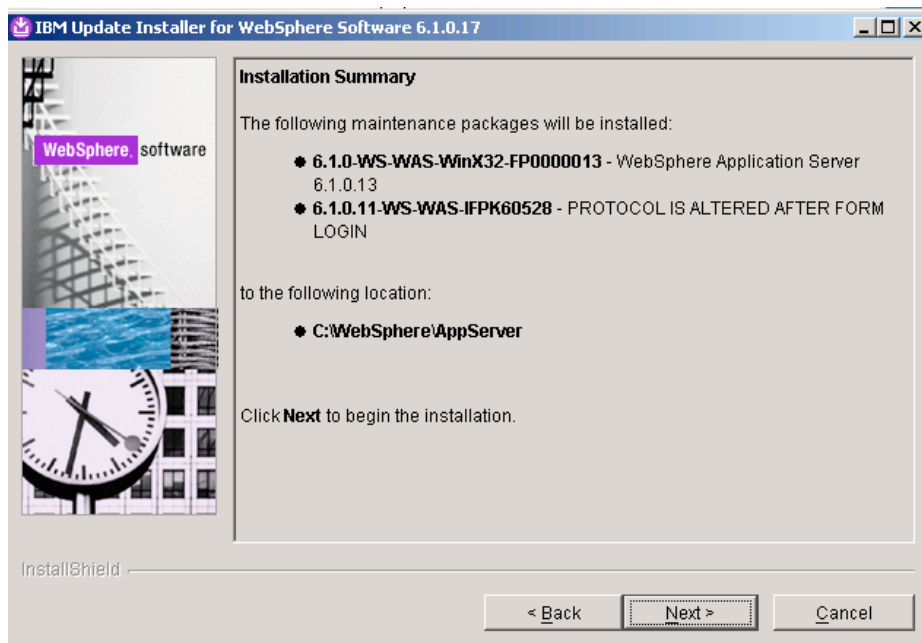
Browse to the directory you copied the .pak files to and click Next



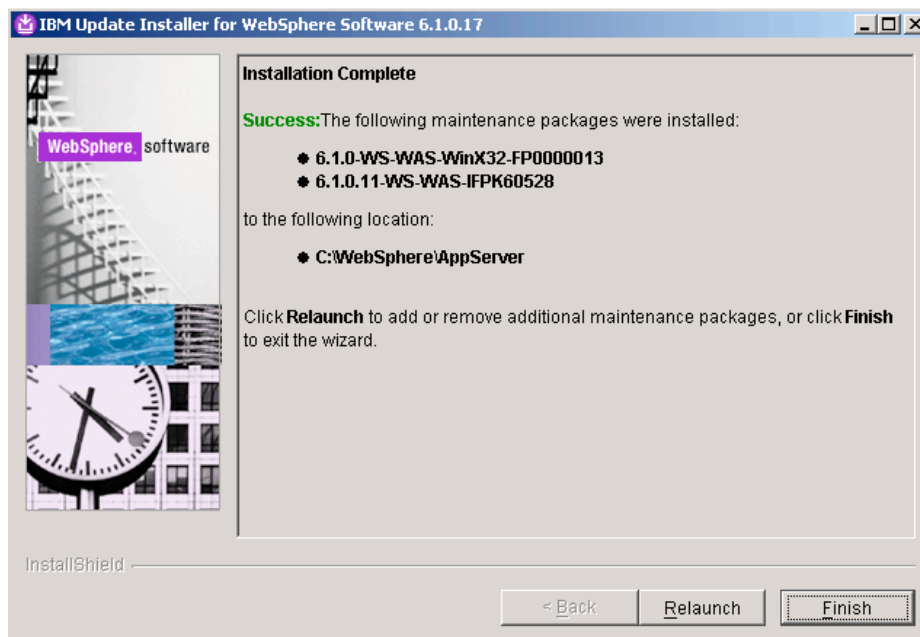
Ensure that the fixes listed below are selected and press Next



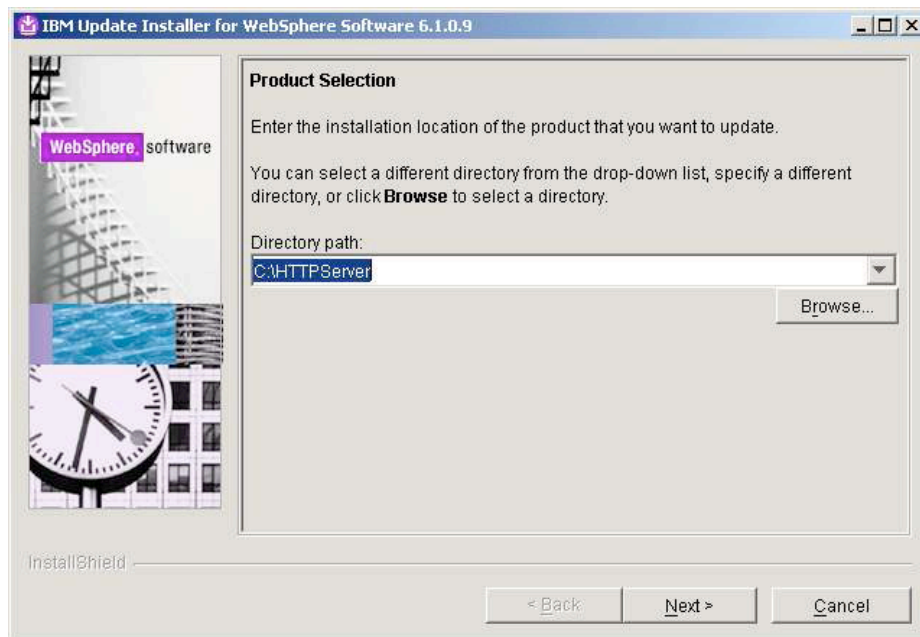
Check the installation summary and press next



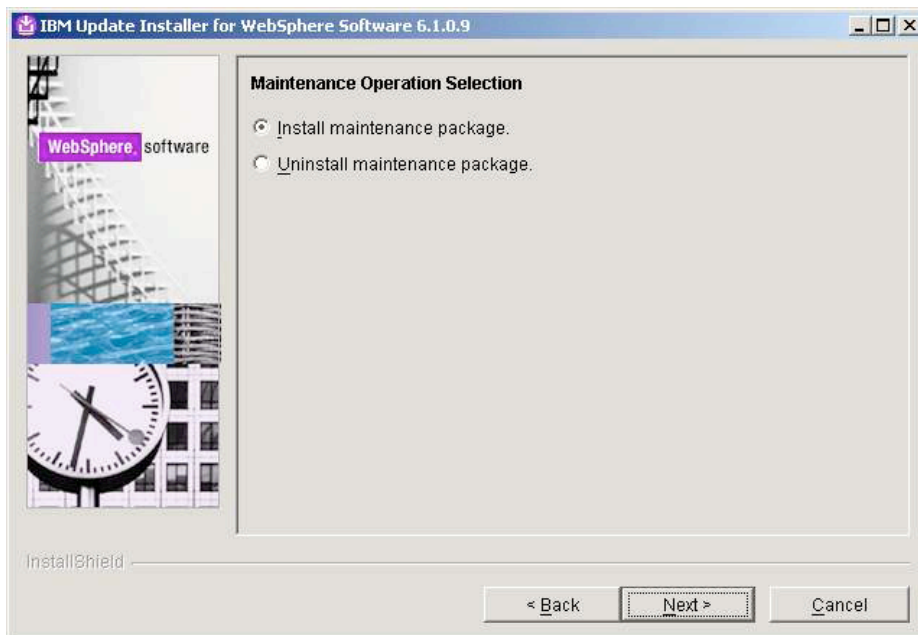
You should see the following screen. Click Relaunch



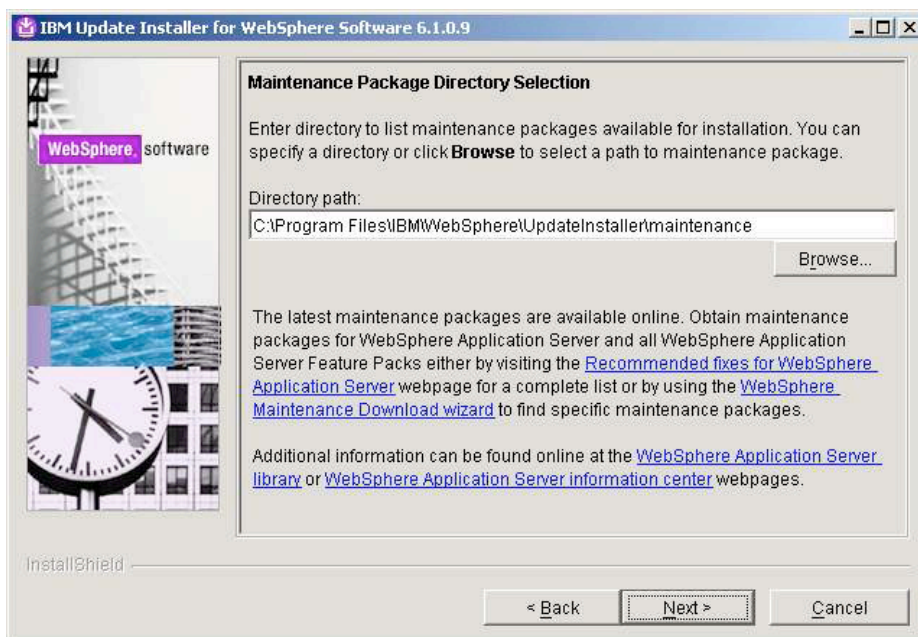
This time, select <httpinstall>. Click Next



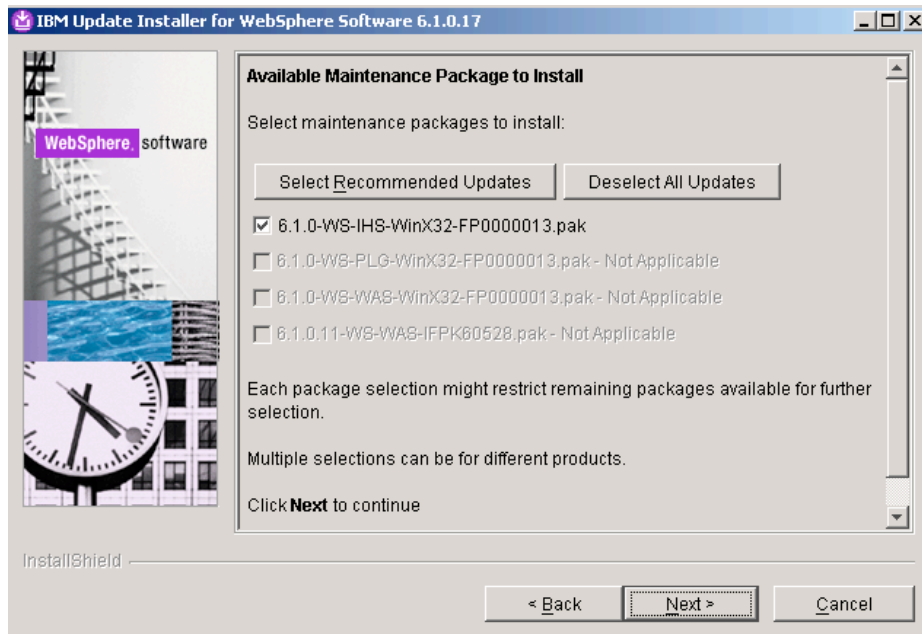
Select Install maintenance package and click next.



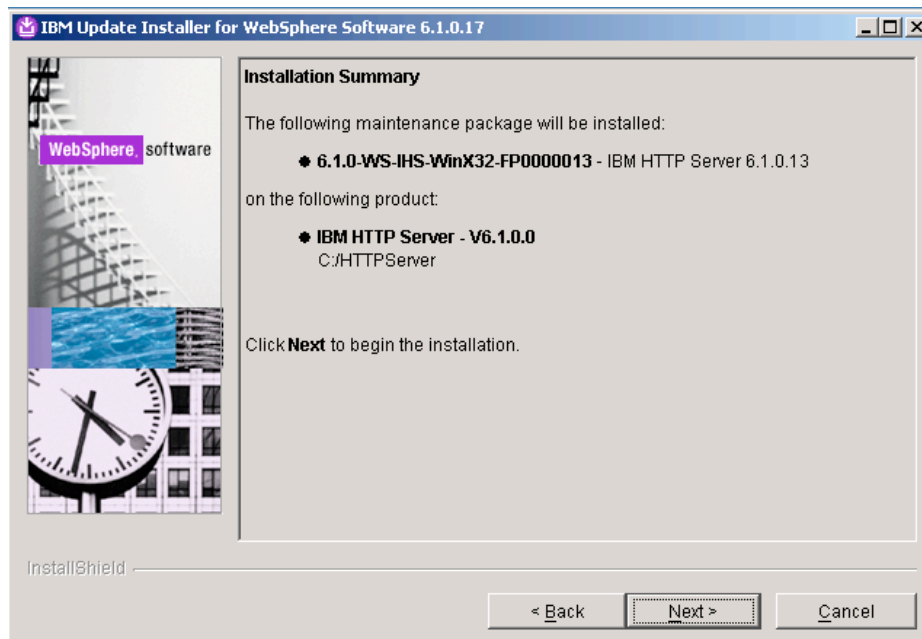
Browse to the directory you copied the .pak files to and click Next



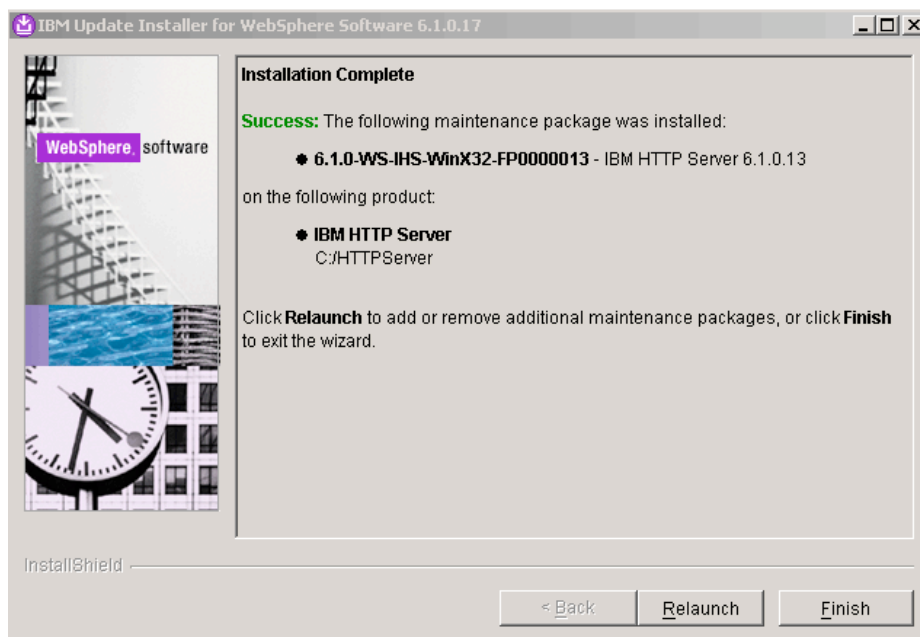
Ensure the fix pack selected in the screen shot below is selected and click Next



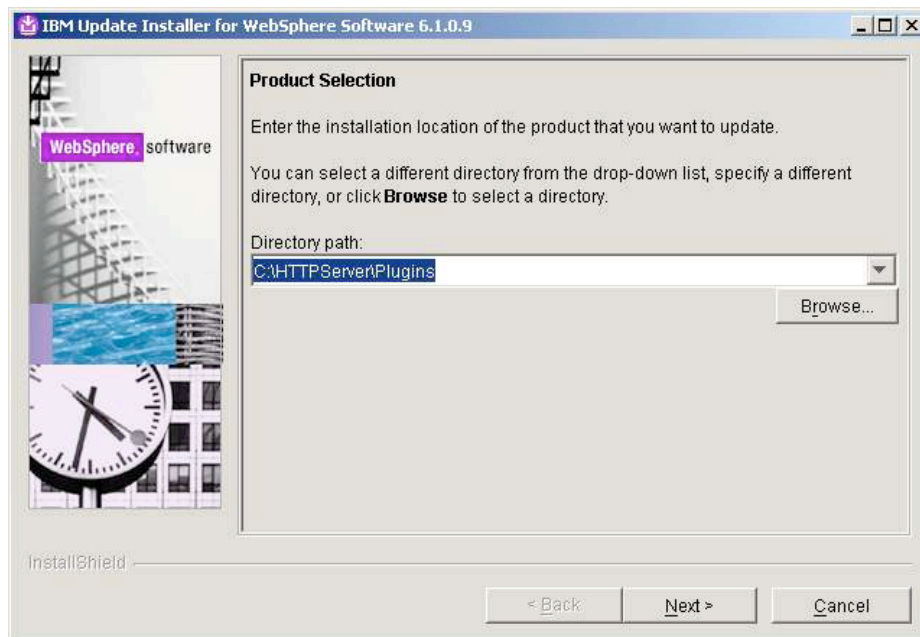
On the summary screen click Next



You should see another success screen. Click **relaunch**.

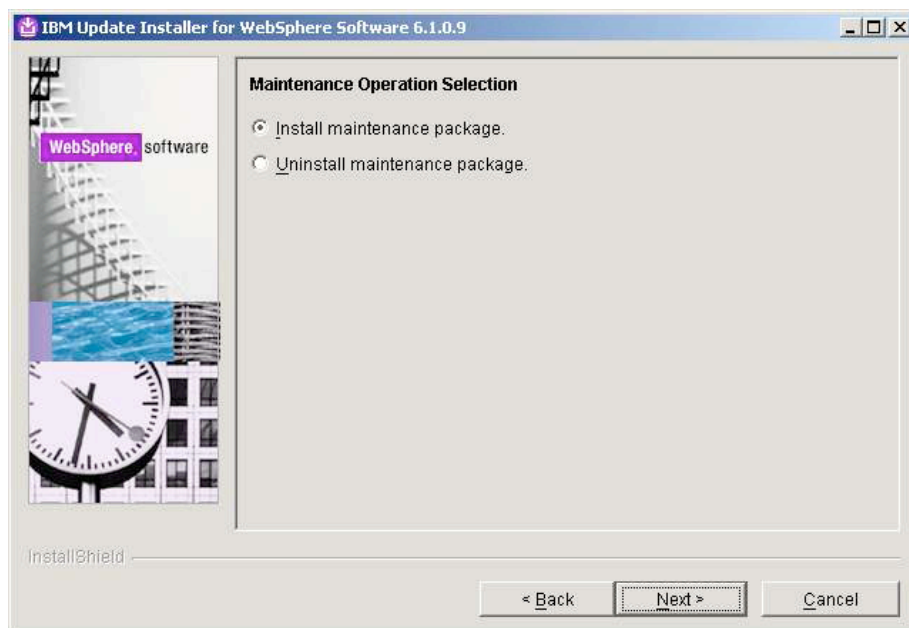


Select `<httpinstall>\plugins` and click **Next**.

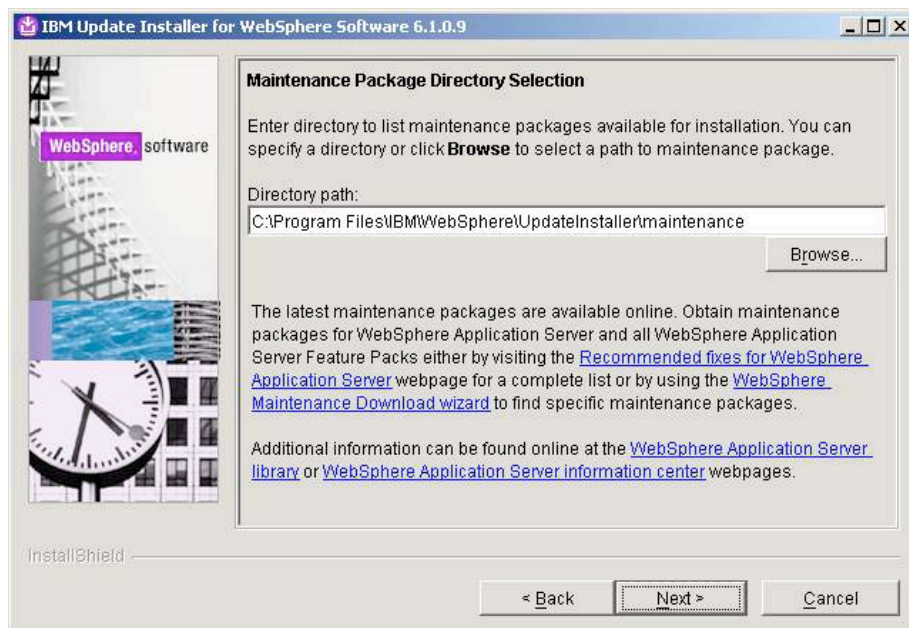




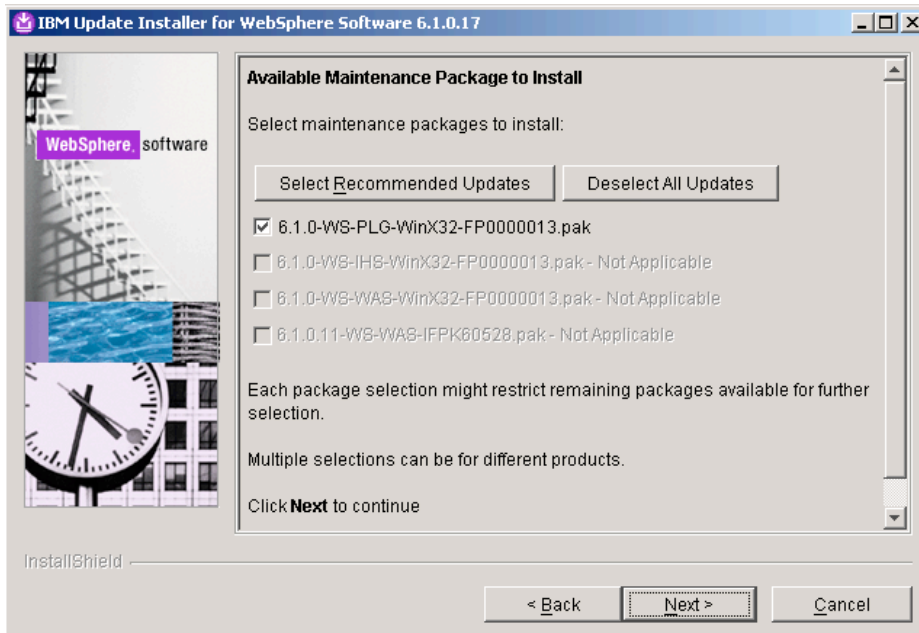
Select Install maintenance and click next



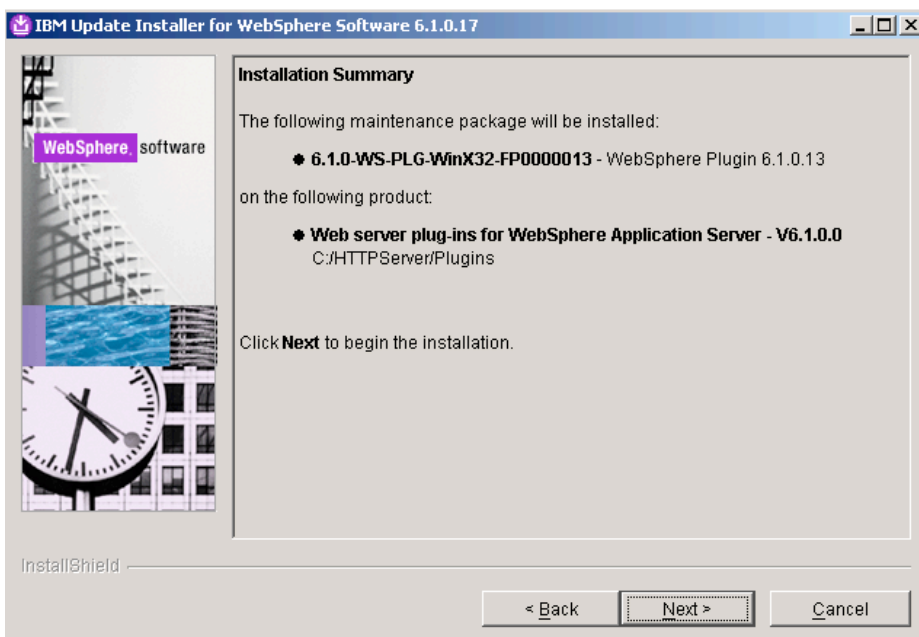
Browse to the directory where you copied the .pak files and click Next



Ensure the fix pack shown below is selected and click Next.

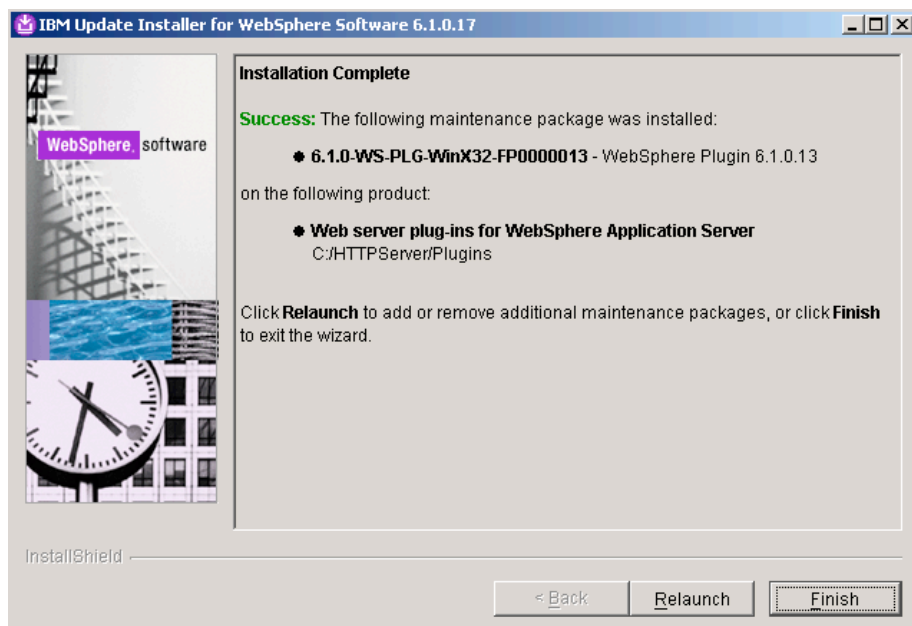


Check the installation summary and click next





On the success screen click Finish.

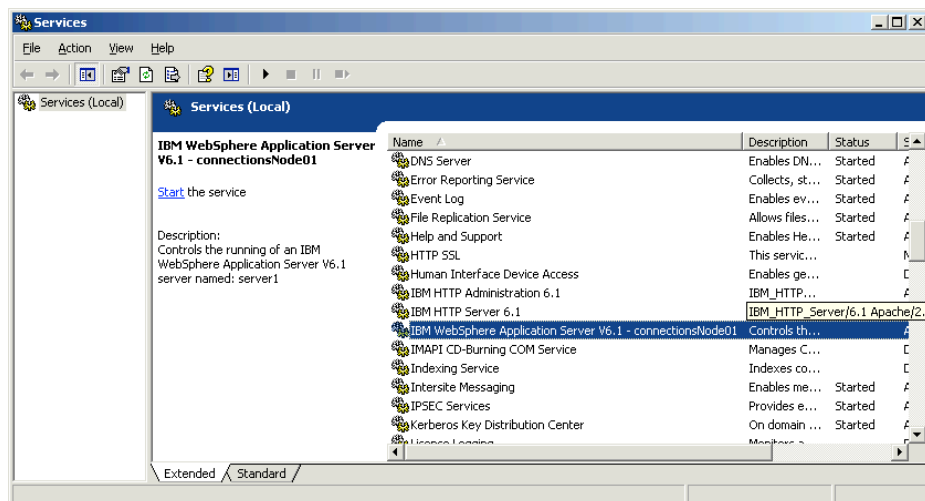


## Start WebSphere

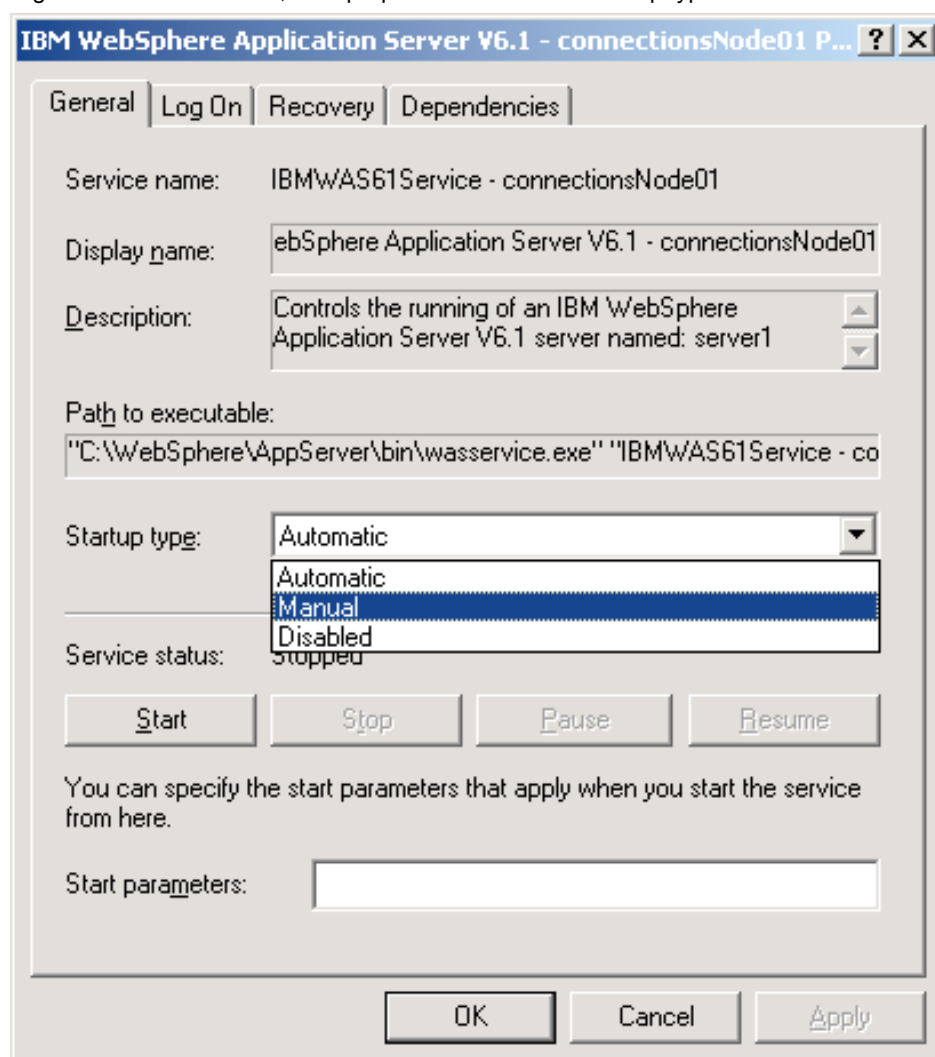
Set WebSphere server1 startup to manual.

Click Start -> Control Panel -> Administrative Tools -> Services

Scroll down to IBM WebSphere Application Server 6.1 - <hostname>Node01



Right click on this service, click properties and set the Startup type to Manual.



Click OK.

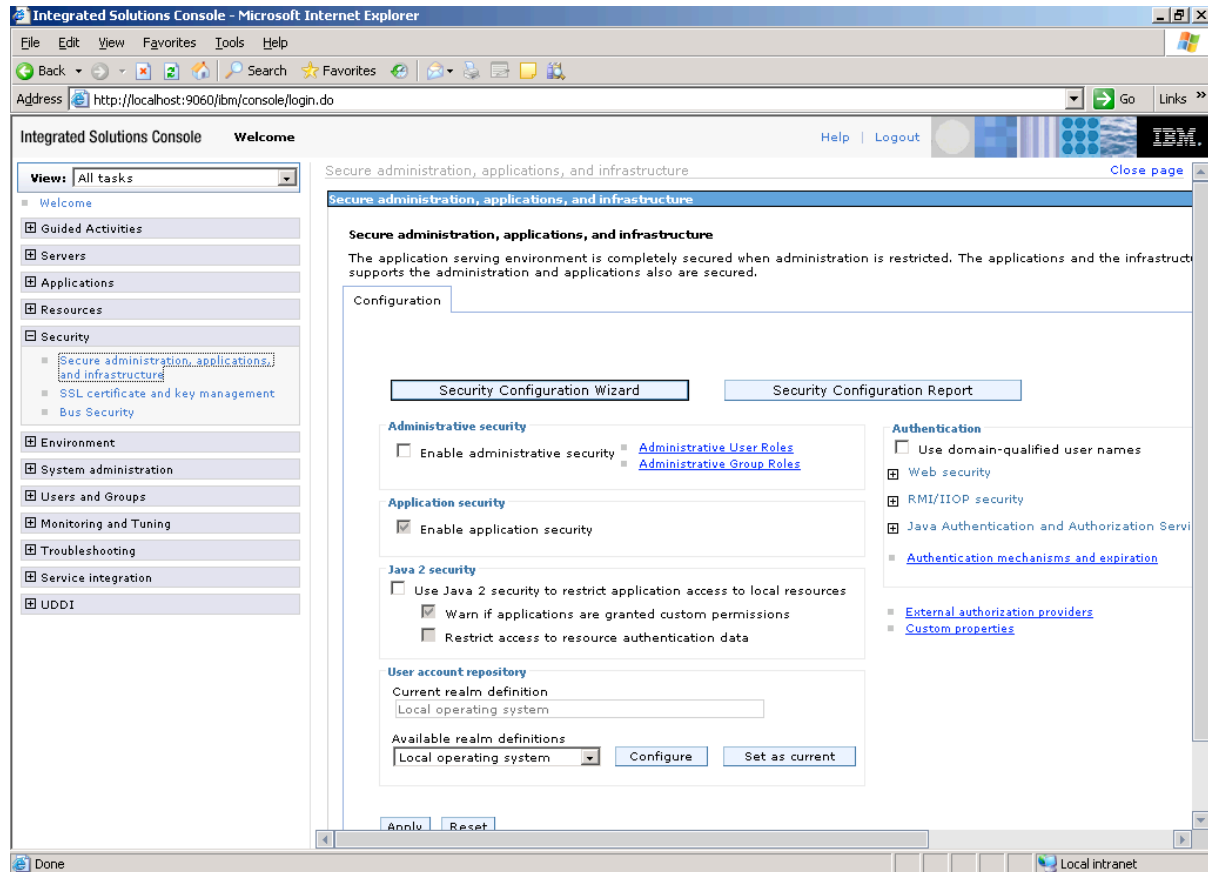
Right click the service again and click Start.

# Configure WebSphere for Federated Repositories

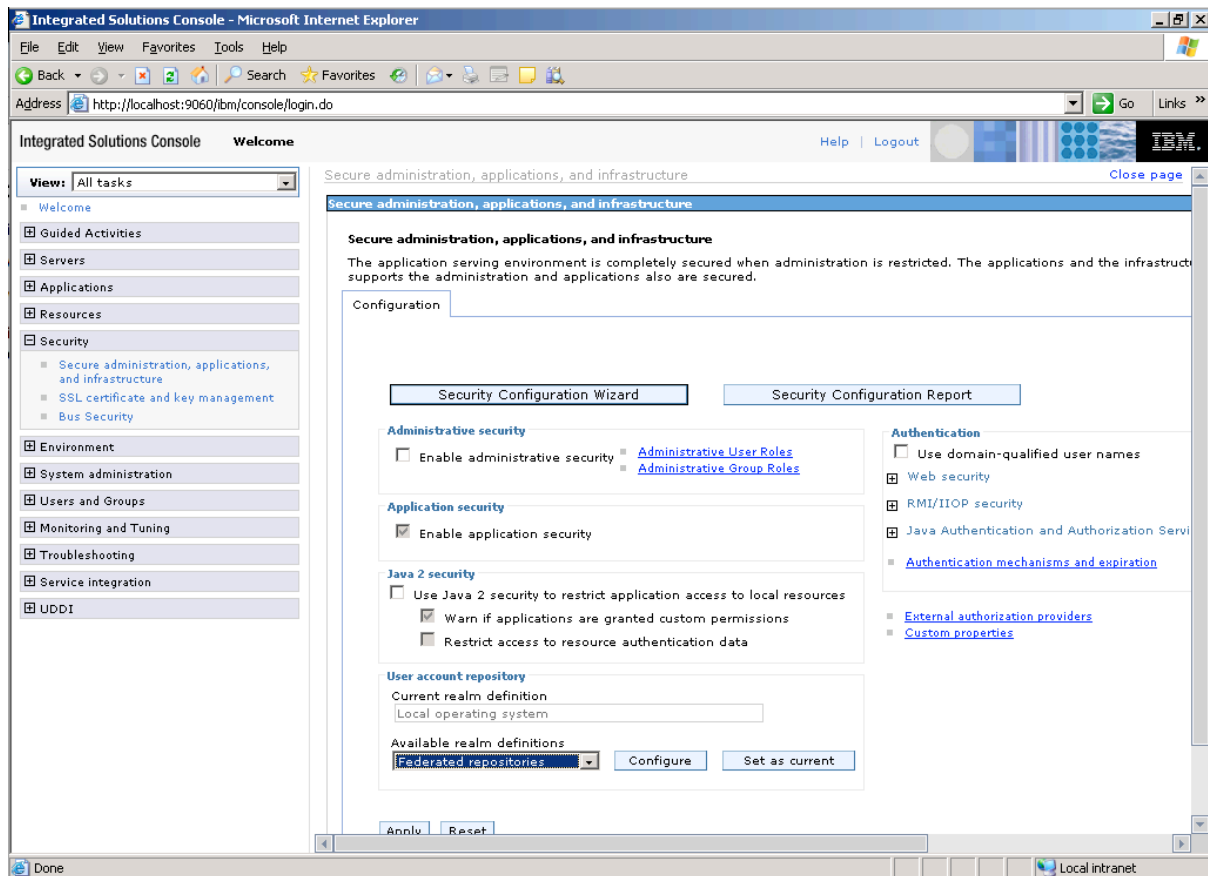
Once the service is started click Start -> All Programs -> IBM WebSphere -> Application Server 6.1 -> Profiles -> AppSrv1 -> Administrative Console.

Do not enter a user ID - just click Log In

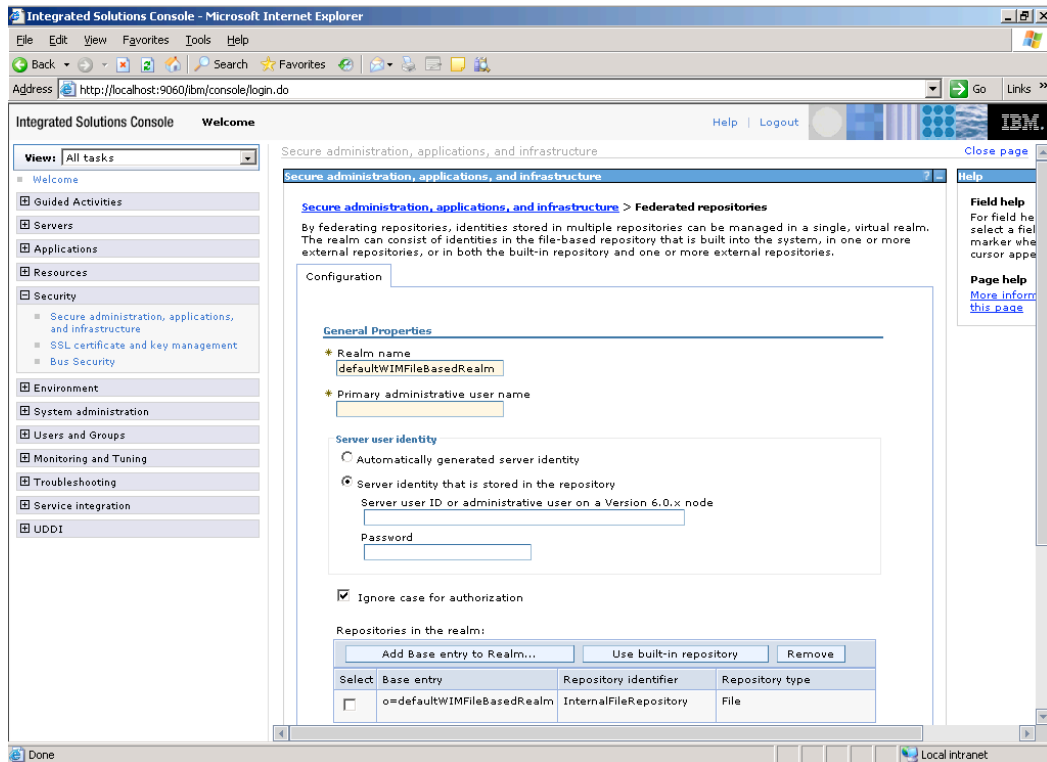
On the left hand side click Security -> Secure administration, applications and infrastructure



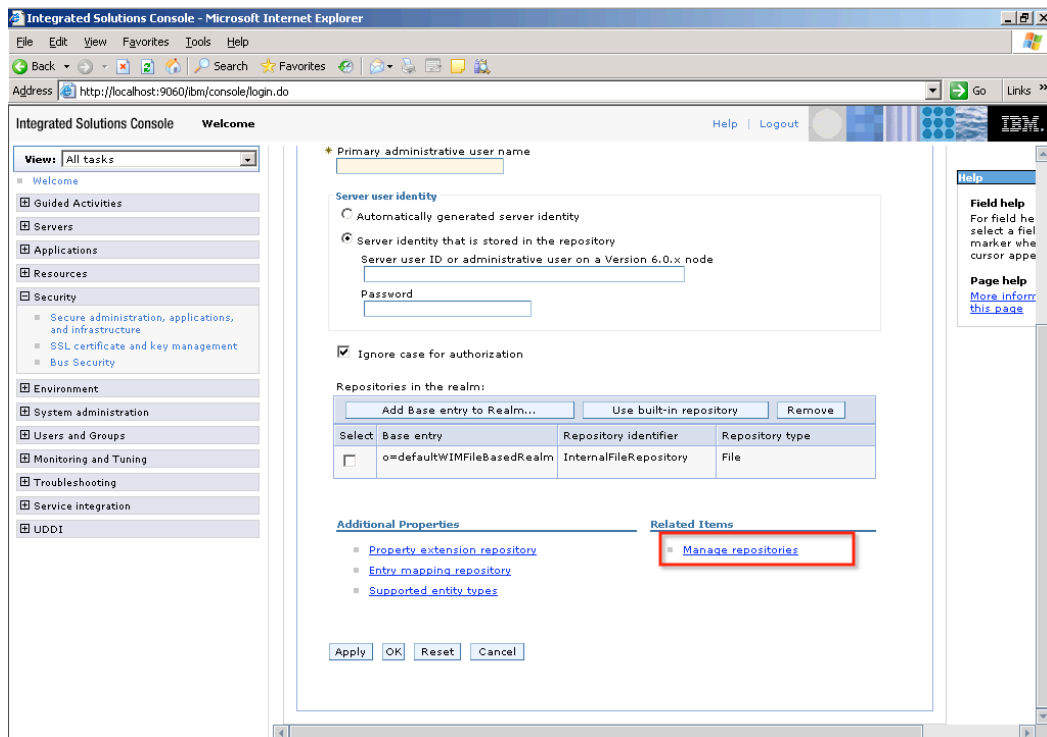
In available realm definitions change from Local Operating System to Federated Repositories



## Click Configure next to Federated Repositories



## Click Manage Repositories at the bottom right of the screen (you may need to scroll down)



Integrated Solutions Console - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites

Address http://localhost:9060/ibm/console/login.do Go Links »

Integrated Solutions Console Welcome Help Logout

Secure administration, applications, and infrastructure [Close page](#)

View: All tasks

- Welcome
- Guided Activities
- Servers
- Applications
- Resources
- Security
  - Secure administration, applications, and infrastructure
  - SSL certificate and key management
  - Bus Security
- Environment
- System administration
- Users and Groups
- Monitoring and Tuning
- Troubleshooting
- Service integration
- UDDI

Secure administration, applications, and infrastructure

[Secure administration, applications, and infrastructure](#) > [Federated repositories](#) > **Manage repositories**

Repositories that are configured in the system are listed in the following table. You can add or delete external repositories.

Preferences

Add Delete

Select	Repository identifier	Repository type
	InternalFileRepository	File
Total 1		

**Field help**  
For field help information, select a field label or list marker when the help cursor appears.

**Page help**  
[More information about this page](#)

**Command Assistance**  
[View administrative scripting command for last action](#)

Click Add

Enter LDAP as Repository identifier

Enter localhost as the Primary host name.

**Advanced:** if installing across multiple systems use the LDAP server's hostname, not localhost

### For Domino

Select IBM Lotus Domino version 6.5 as the Directory type (even though it is version 8!)

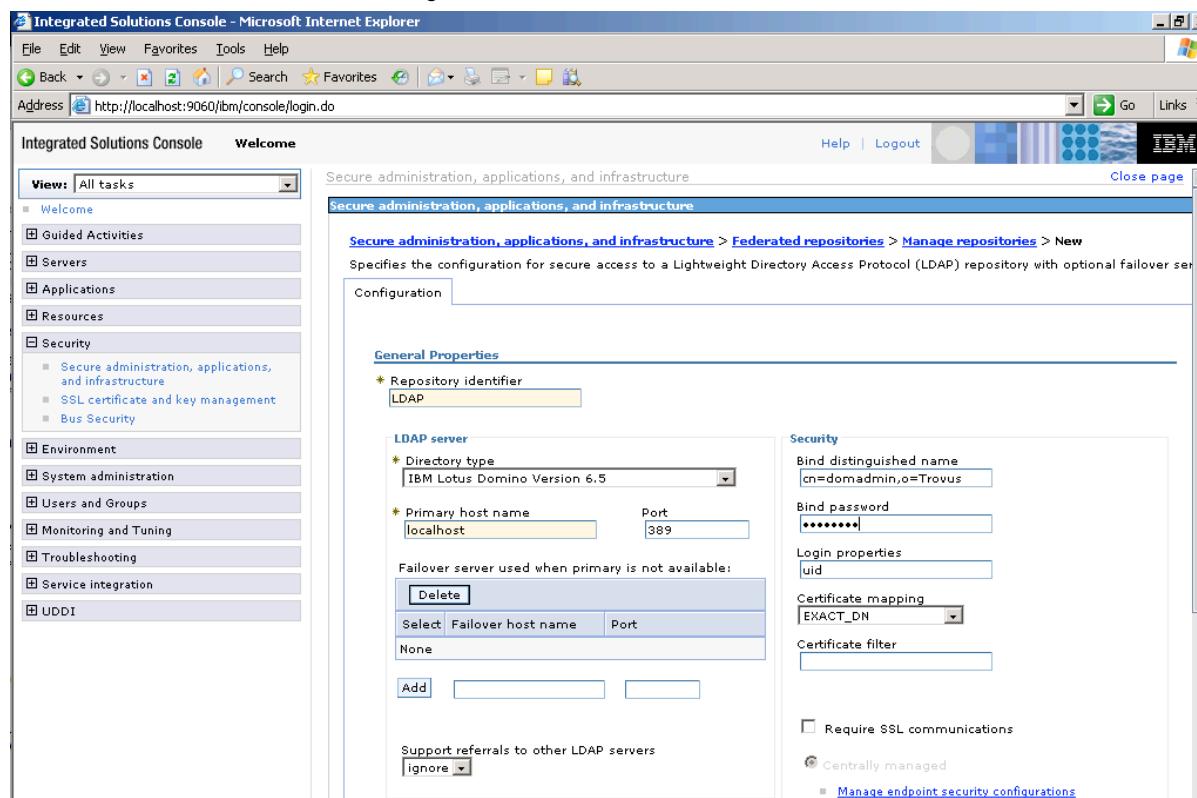
Bind distinguished name is `cn=<dominoadmin>,o=<orgname>`

Note that `<orgname>` is **case sensitive**.

For example, my setting is `cn=domadmin,o=Trovus`

The bind password is `<orgpwd>`

Here is a screen shot for Domino settings



### For Active Directory:

Select Microsoft Windows Server 2003 Active Directory as the Directory type

Bind distinguished name is the format

`cn=<winadminuser>,cn=Users,dc=<domain1>,dc=<domain2>,...`

Where `<domain1>` = the first part of `<domain>` (eg trovus)

Where `<domain2>` = the second part of `<domain>` (eg co)

Where this continues until you have all of `<domain>` broken down.

For example, my setting is `cn=Administrator,cn=Users,dc=trouvus,dc=co,dc=uk`

The Bind password is `<winadminpwd>`

Here is a screen shot for Active Directory settings

The screenshot shows the 'Integrated Solutions Console' in a Microsoft Internet Explorer browser. The address bar shows 'http://localhost:9060/ibm/console/login.do'. The left sidebar contains a navigation tree with categories like 'Welcome', 'Servers', 'Applications', 'Resources', 'Security', 'Environment', 'System administration', 'Users and Groups', 'Monitoring and Tuning', 'Troubleshooting', 'Service integration', and 'UDDI'. The 'Security' category is expanded, showing 'Secure administration, applications, and infrastructure', 'SSL certificate and key management', and 'Bus Security'. The main content area is titled 'Secure administration, applications, and infrastructure' and shows the 'Manage repositories' page. The 'Configuration' tab is selected, displaying the 'General Properties' section. The 'Repository identifier' is 'LDAP'. The 'LDAP server' section shows 'Directory type' as 'Microsoft Windows Server 2003 Active Directory', 'Primary host name' as 'localhost', and 'Port' as '389'. The 'Failover server' section is empty. The 'Support referrals to other LDAP servers' is set to 'ignore'. The 'Security' section shows 'Bind distinguished name' as 'cn=Administrator,cn=Users,d', 'Bind password' as '\*\*\*\*\*', 'Login properties' as 'uid', 'Certificate mapping' as 'EXACT\_DN', and 'Certificate filter' as an empty field. There are checkboxes for 'Require SSL communications' and 'Centrally managed', and a link to 'Manage endpoint security configurations'.

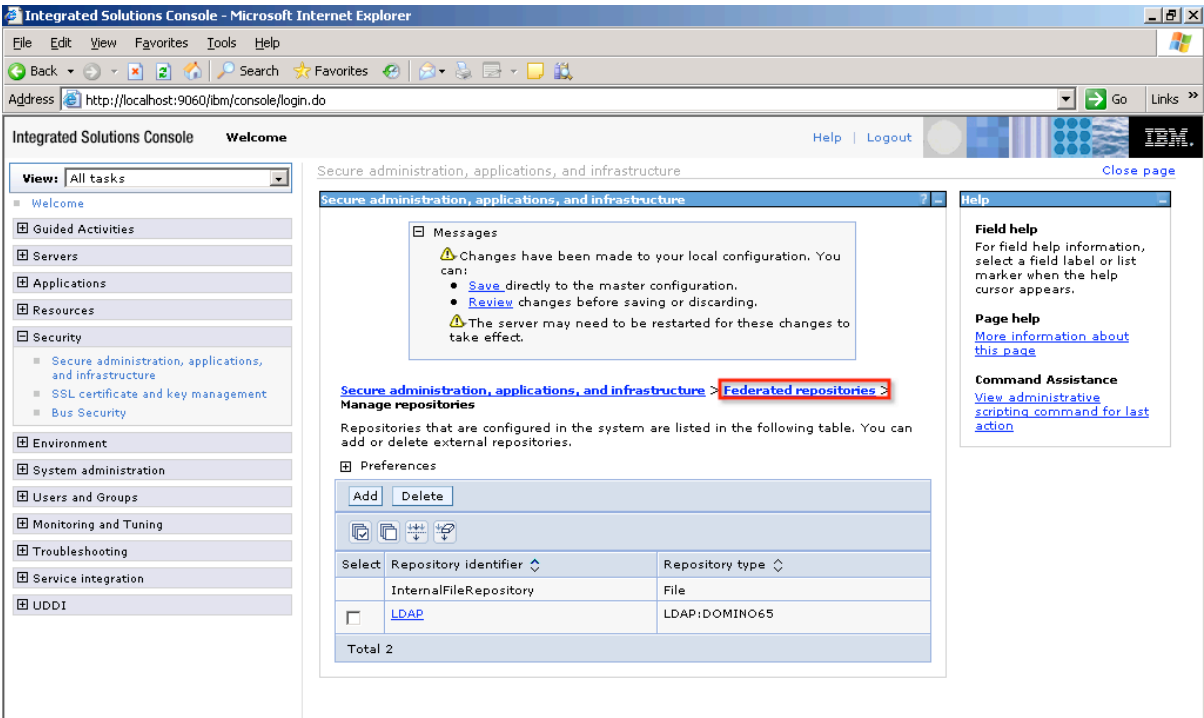
For both Active Directory and Domino

Click Apply. If there are no errors click OK. If there is a problem you will see a message like this. If you see this double check your entries (most likely cause is an invalid form of the Bind distinguished name) and try again.

The screenshot shows the 'Integrated Solutions Console' in a Microsoft Internet Explorer browser. The address bar shows 'http://localhost:9060/ibm/console/login.do'. The left sidebar is the same as the previous screenshot. The main content area is titled 'Secure administration, applications, and infrastructure' and shows the 'Manage repositories' page. The 'Configuration' tab is selected, displaying the 'General Properties' section. The 'Repository identifier' is 'LDAP'. The 'LDAP server' section shows 'Directory type' as 'Microsoft Windows Server 2003 Active Directory', 'Primary host name' as 'localhost', and 'Port' as '389'. The 'Failover server' section is empty. The 'Support referrals to other LDAP servers' is set to 'ignore'. The 'Security' section shows 'Bind distinguished name' as 'cn=Administrator,cn=Users,d', 'Bind password' as '\*\*\*\*\*', 'Login properties' as 'uid', 'Certificate mapping' as 'EXACT\_DN', and 'Certificate filter' as an empty field. There are checkboxes for 'Require SSL communications' and 'Centrally managed', and a link to 'Manage endpoint security configurations'. A 'Messages' box is displayed, showing an error: 'CWIM5020E Could not connect to the ldap://localhost:389 repository using properties: [id=LDAP],[connectionPool=false],[authentication=simple],[bindPassword=\*\*\*\*\*],[connectTimeout=0],[sslEnabled=false],[certificateFilter=],[derefAliases=always],[referral=ignore],[sslConfiguration=],[host=localhost],[certificateMapMode=exactdn],[bindDN=cn=domadmin,o=Trovus],[ldapServerType=DOMINO65],[port=389],'. Below the error message, there are instructions: 'Changes have been made to your local configuration. You can: Save directly to the master configuration. Review changes before saving or discarding. The server may need to be restarted for these changes to take effect.'



When you have no red text after pressing Apply, press OK you will see this screen (note if using Active Directory it will not say LDAP:DOMINO65)



Click Federated Repositories on the breadcrumb trail

Integrated Solutions Console - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address http://localhost:9060/ibm/console/login.do

Integrated Solutions Console Welcome Help Logout

Secure administration, applications, and infrastructure

Secure administration, applications, and infrastructure

Messages

- Changes have been made to your local configuration. You can:
  - Save directly to the master configuration.
  - Review changes before saving or discarding.
- The server may need to be restarted for these changes to take effect.

Secure administration, applications, and infrastructure > Federated repositories

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

Configuration

General Properties

\* Realm name  
defaultWIMFileBasedRealm

\* Primary administrative user name

Server user identity

☐ Automatically generated server identity

☒ Server identity that is stored in the repository

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

Password

☒ Ignore case for authorization

Repositories in the realm:

Add Base entry to Realm... Use built-in repository Remove

Select	Base entry	Repository identifier	Repository type
<input type="checkbox"/>	o=defaultWIMFileBasedRealm	InternalFileRepository	File

Field help  
For field help info select a field label marker when the cursor appears.

Page help  
More information this page

Click the button Add Base entry to Realm...

In the drop down ensure the LDAP repository is selected.

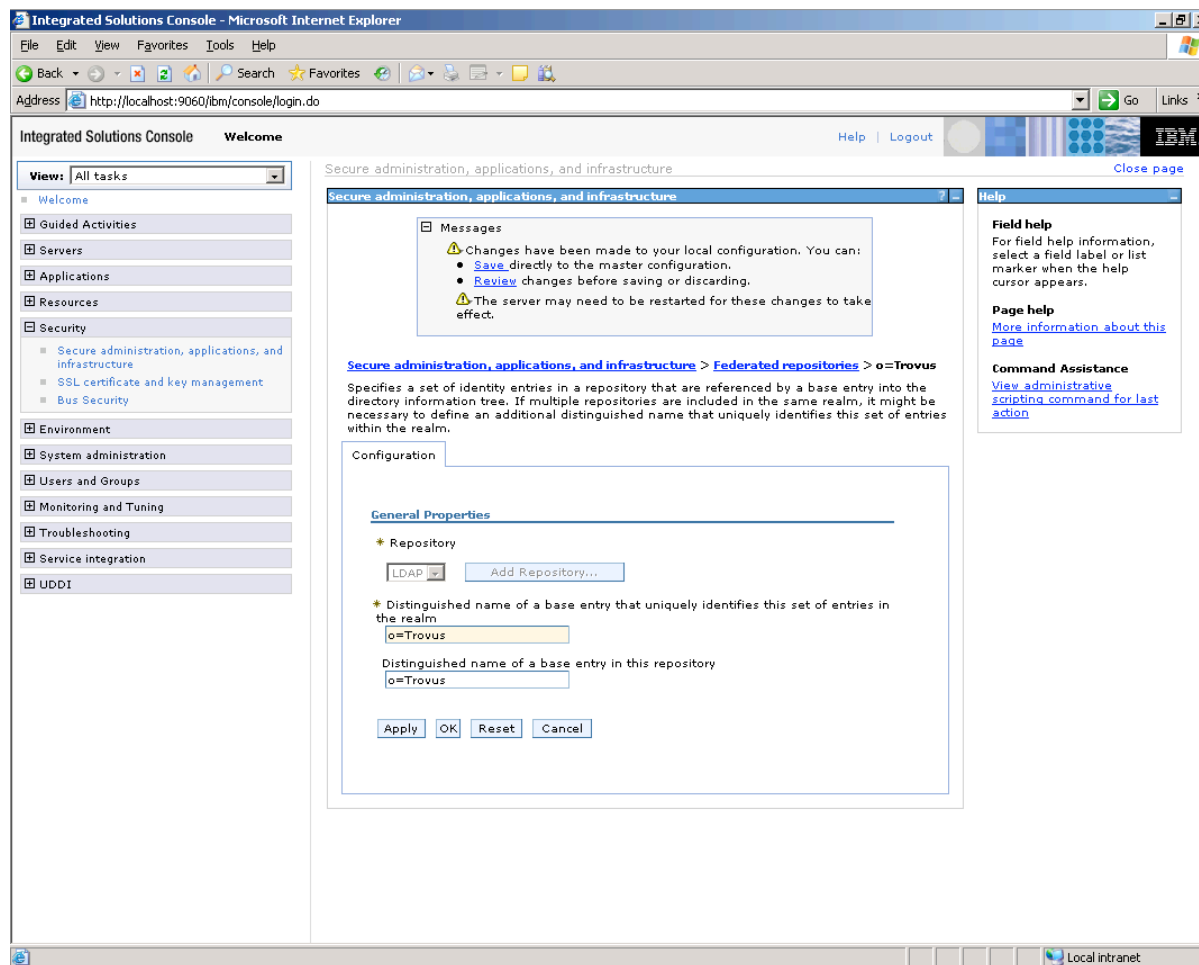
## For Domino

Distinguished name of a base entry that uniquely identifies this set of entries in the realm is `o=<orgname>` eg `o=Trovus`.

Distinguished name of a base entry in this repository is the same.

Remember that `<orgname>` is case sensitive.

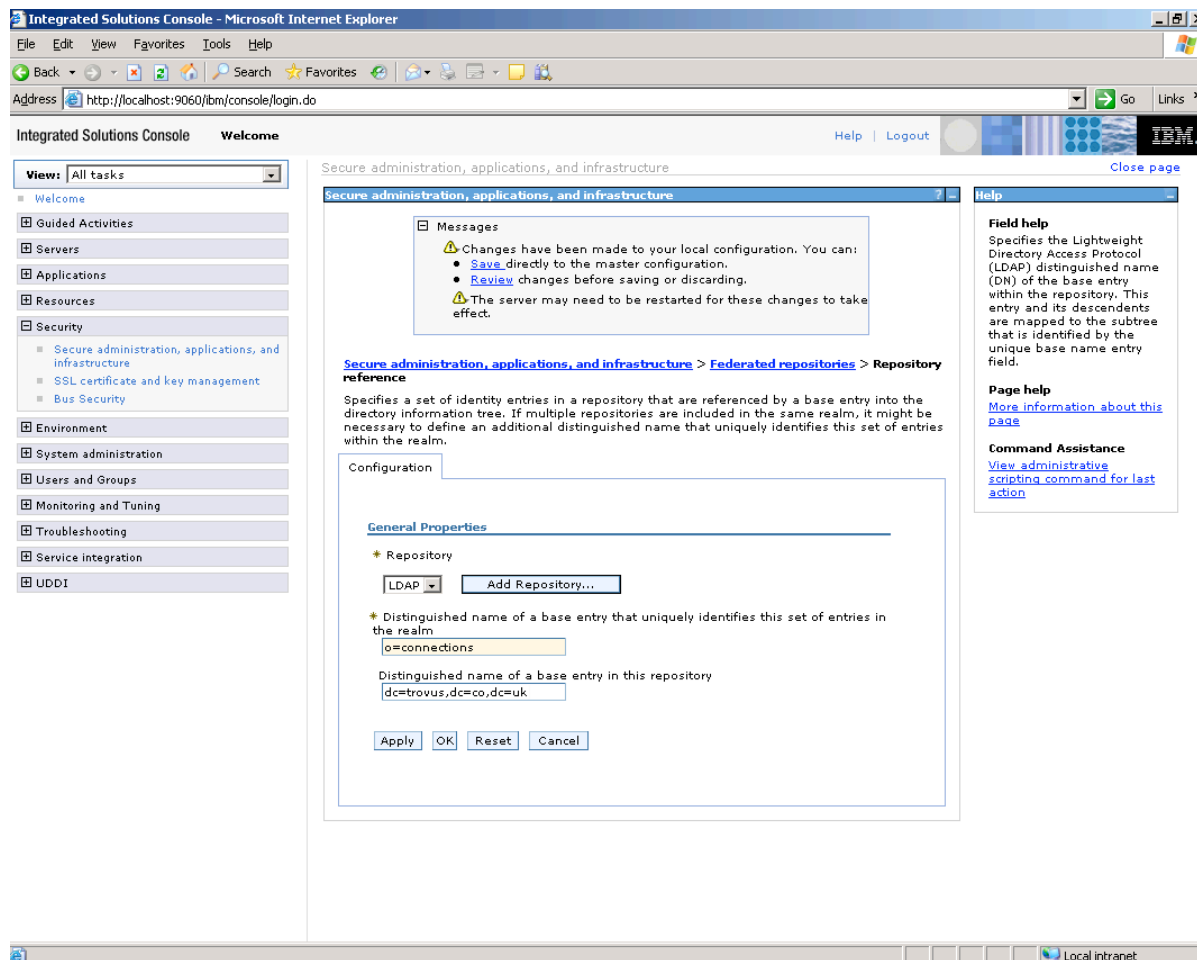
Here is a screenshot for Domino



## For Active Directory

Distinguished name of a base entry that uniquely identifies this set of entries in the realm is `o=<hostname>` eg `o=connections`.

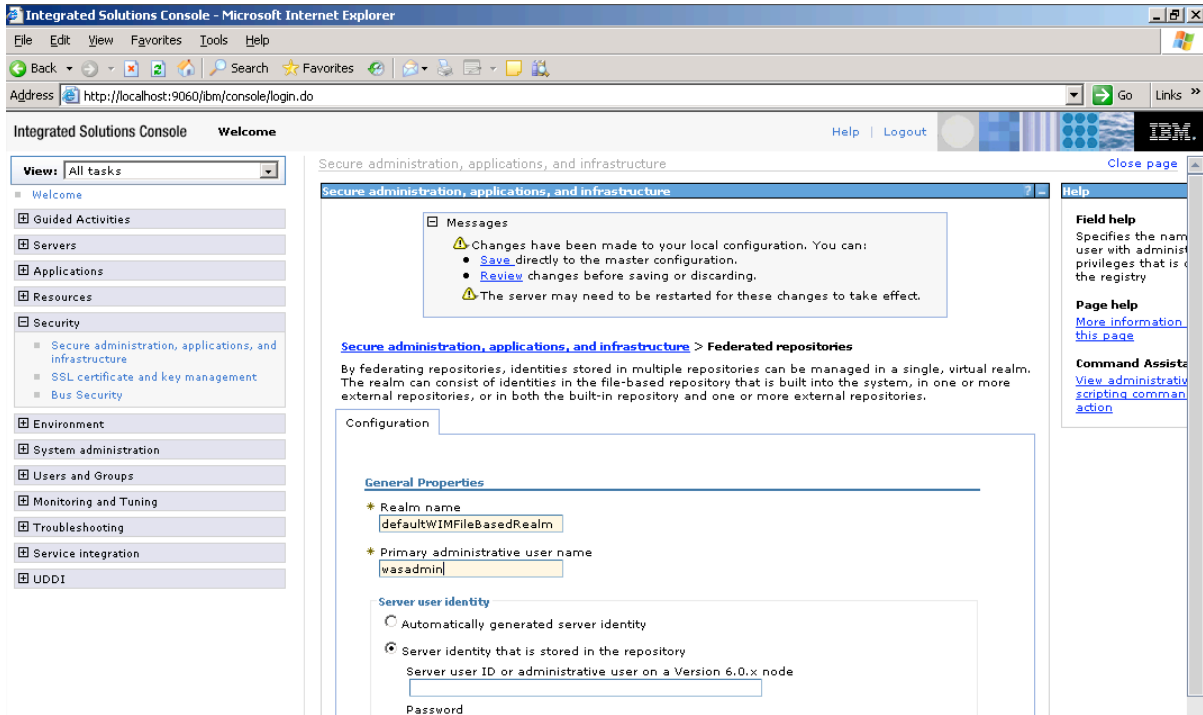
Distinguished name of a base entry in this repository is `<domain>` broken out into 'dc=' again. Eg `dc=trovus,dc=co,dc=uk`.



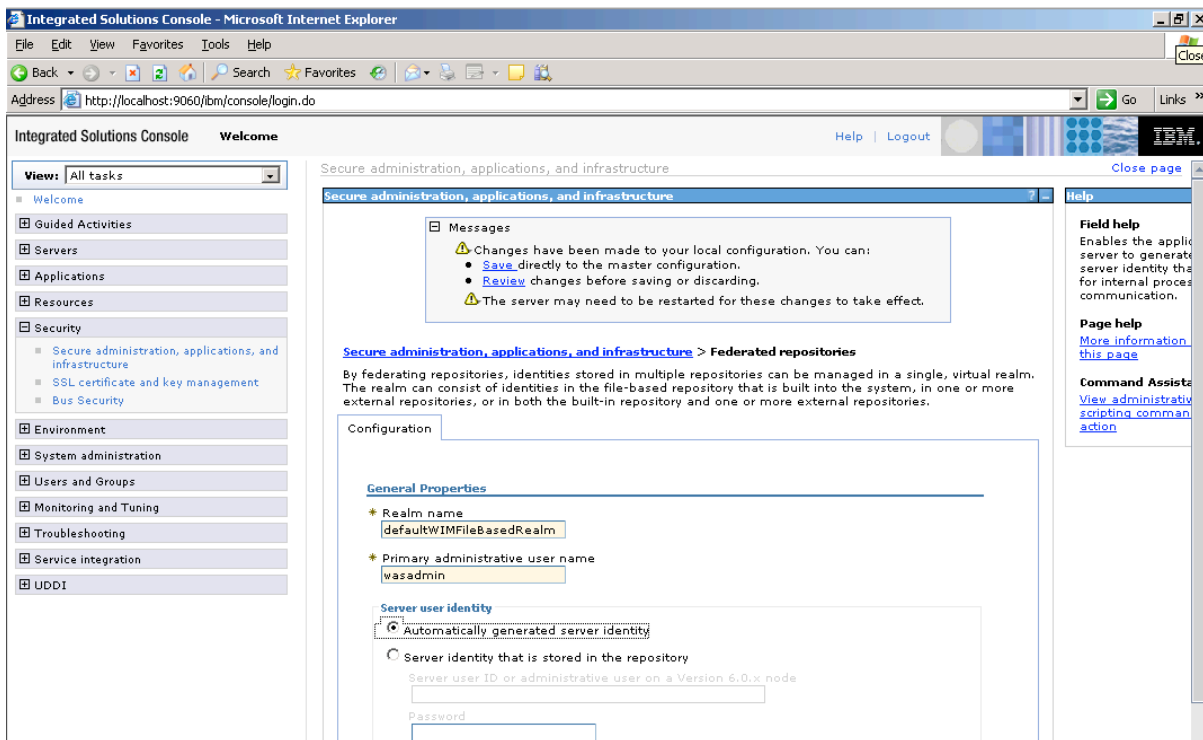
## For both Active Directory and Domino

Click OK

Enter <wasadminuser> as the Primary administrative name. This name must **not** exist in Active Directory or Domino directory or be an existing name in the operating system user registry.



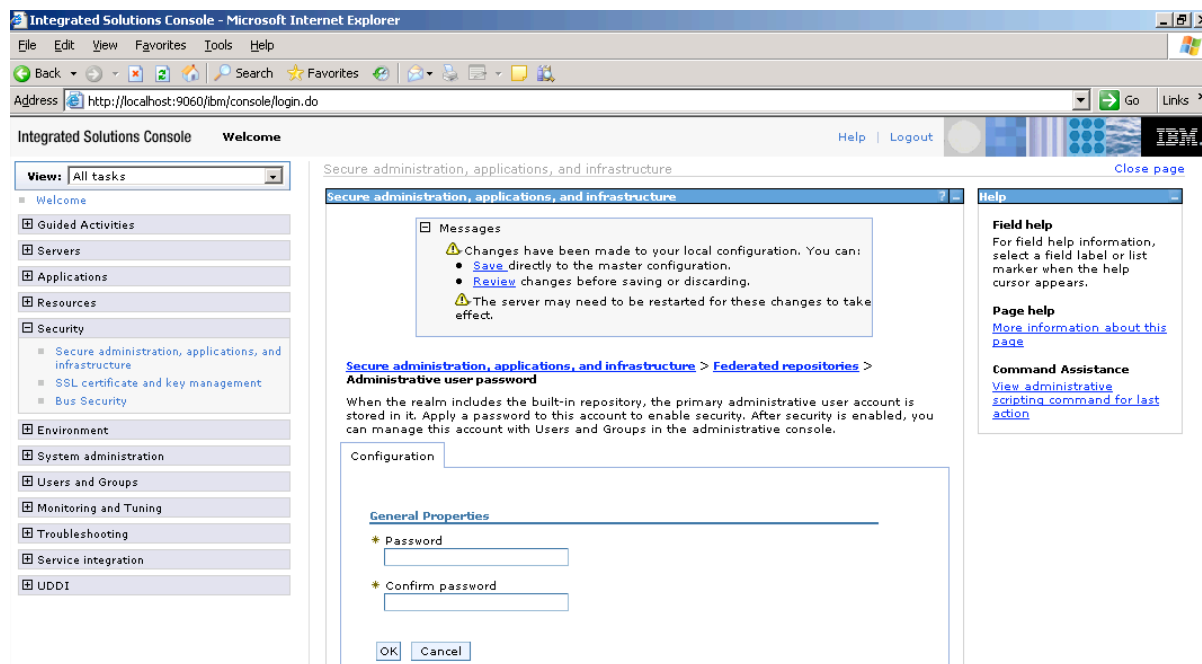
Select Automatically generated server identity



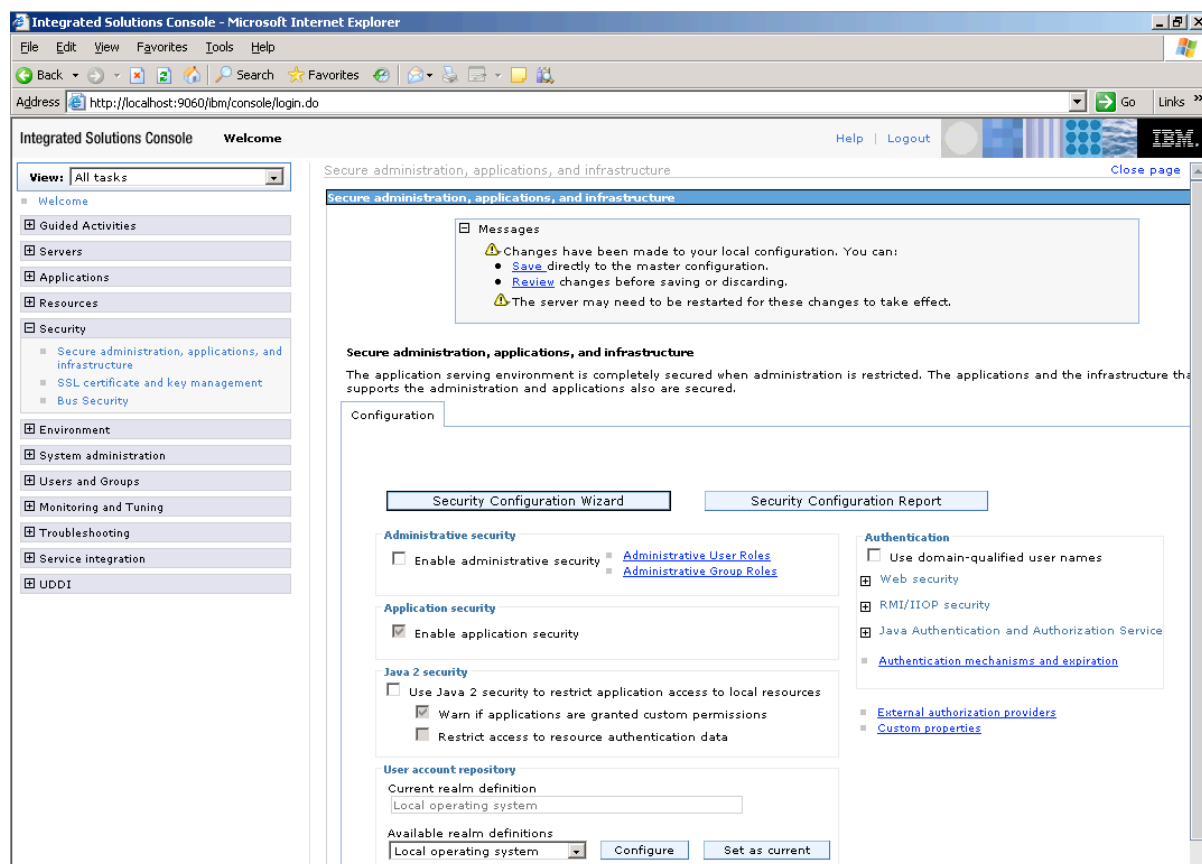
Click OK

Enter <wasadminpwd> for the password.

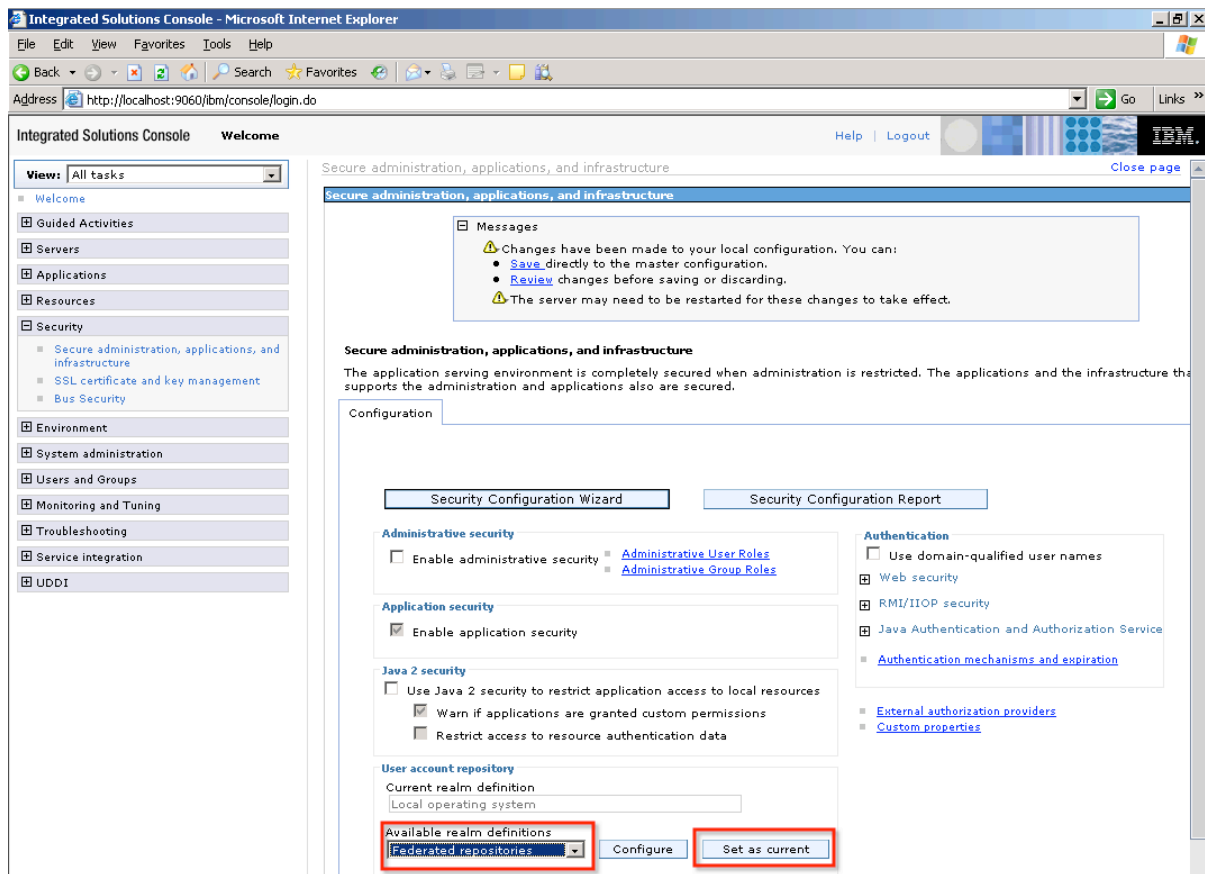
**Note - <wasadminuser> and <wasadminpwd> must be used when stopping the server from the command line.**



Click OK. You will return to this screen.

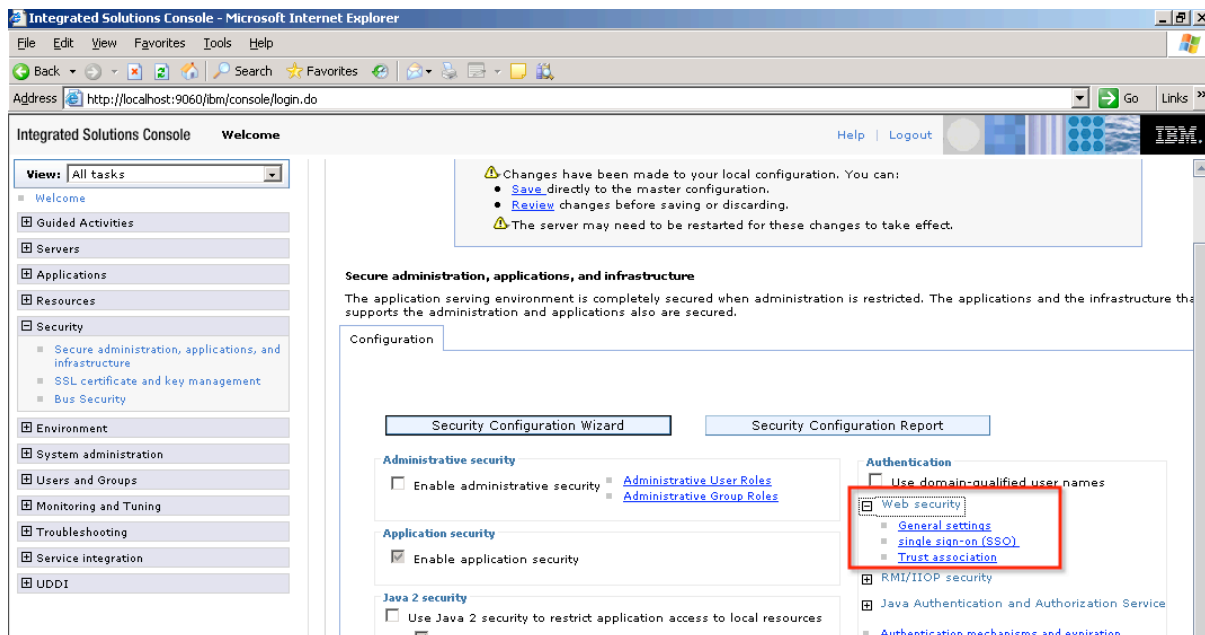


Change Available realm definitions back to Federated Repositories.

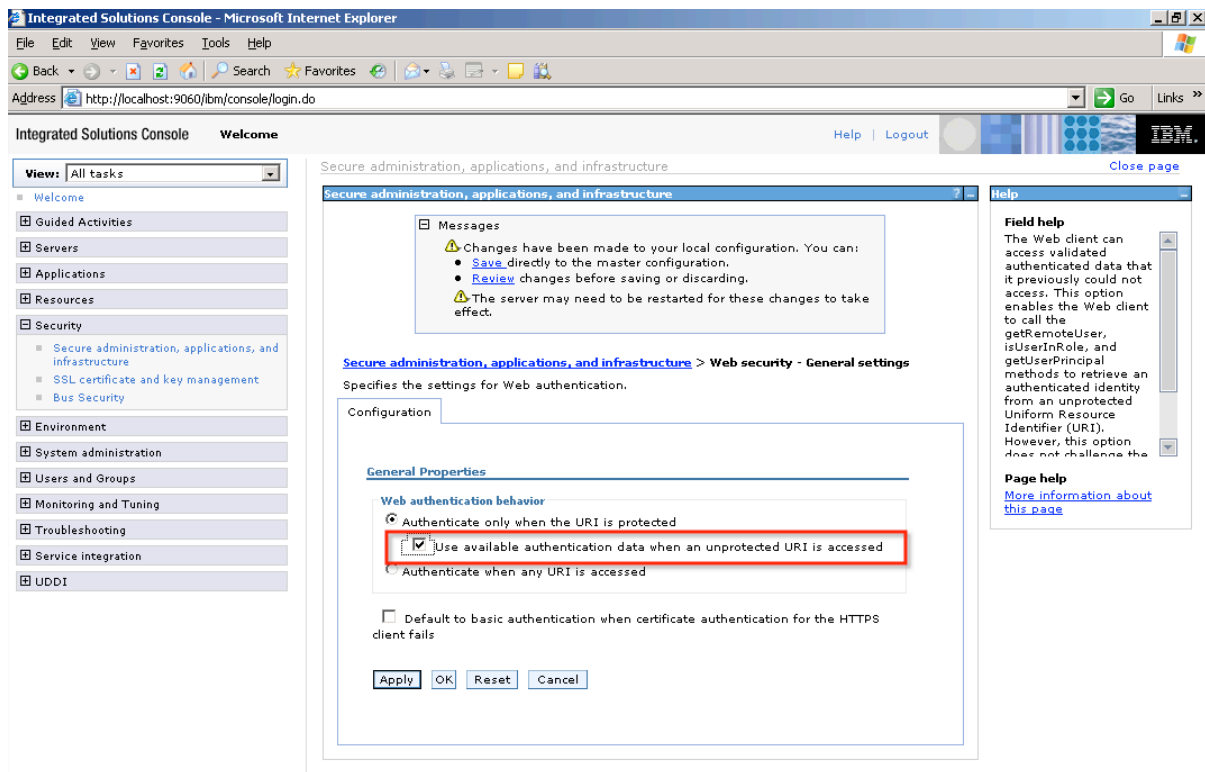


Click Set as current. The page will refresh with Federated repositories as the Current realm definition.

Expand Web Security on the right hand side.

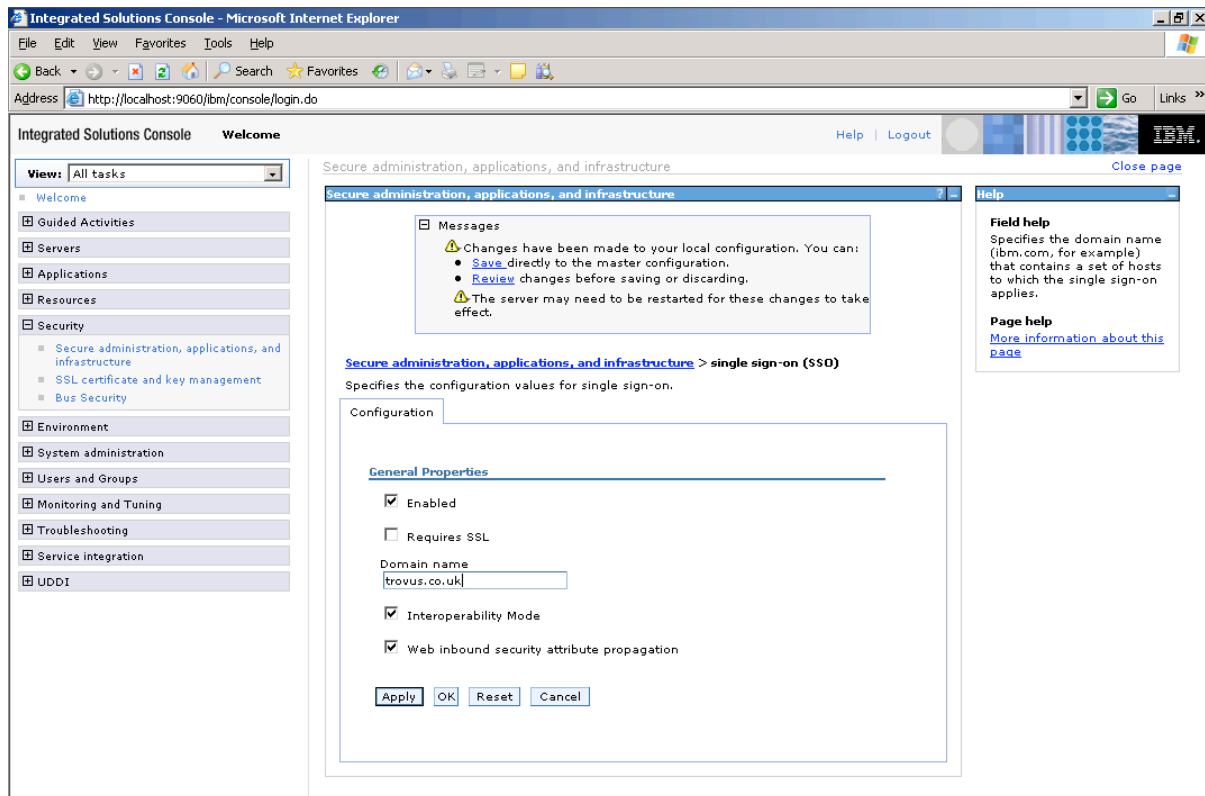


Click General Settings. Check Use available authentication data when an unprotected URI is accessed



Click OK

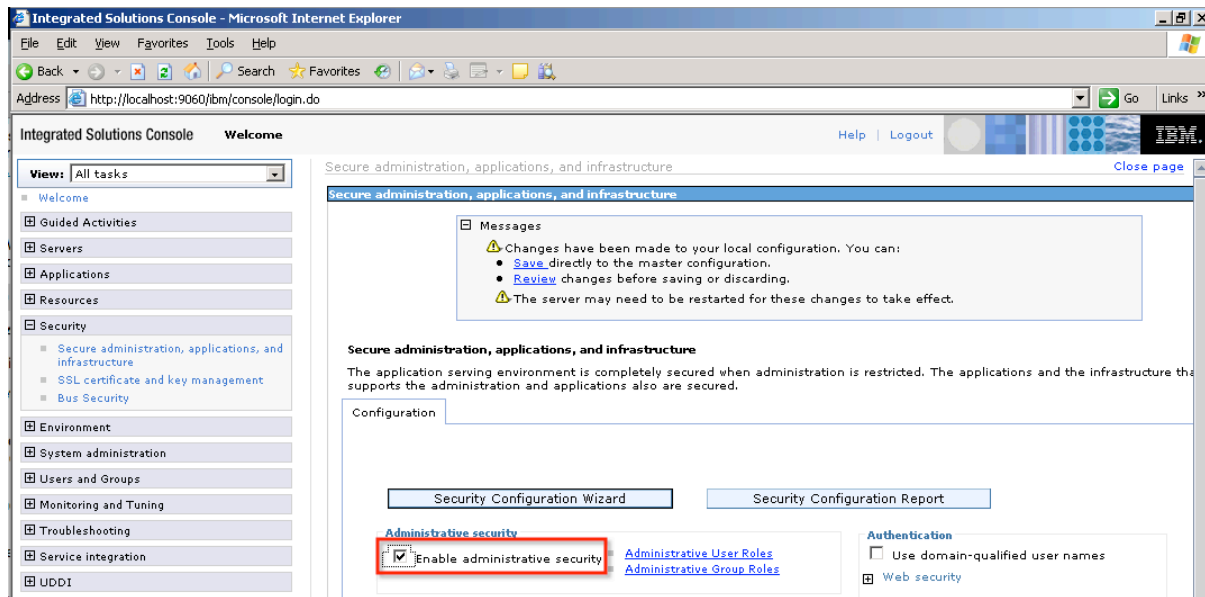
Click Web Security again and click single sign-on (SSO). Enter <domain> for Domain name



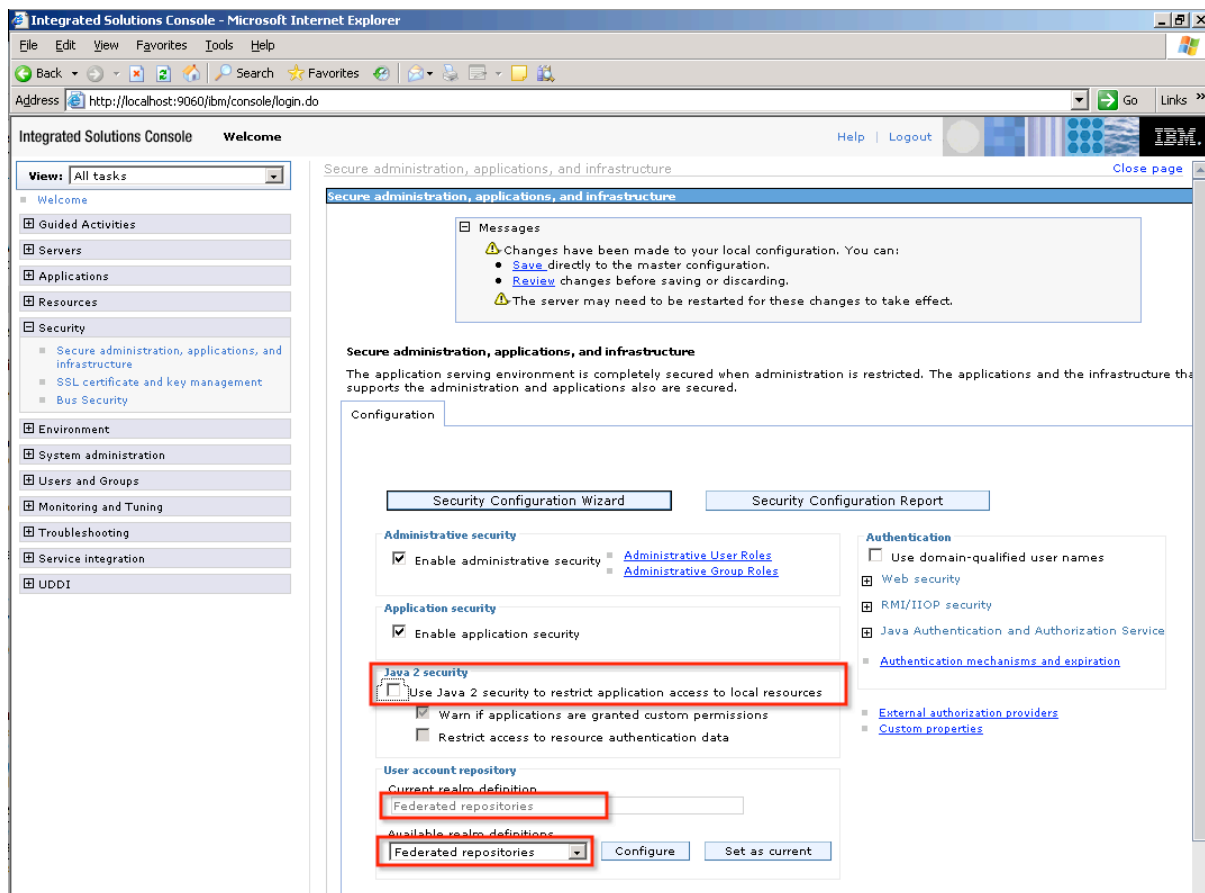
Click OK



Click Enable administrative security

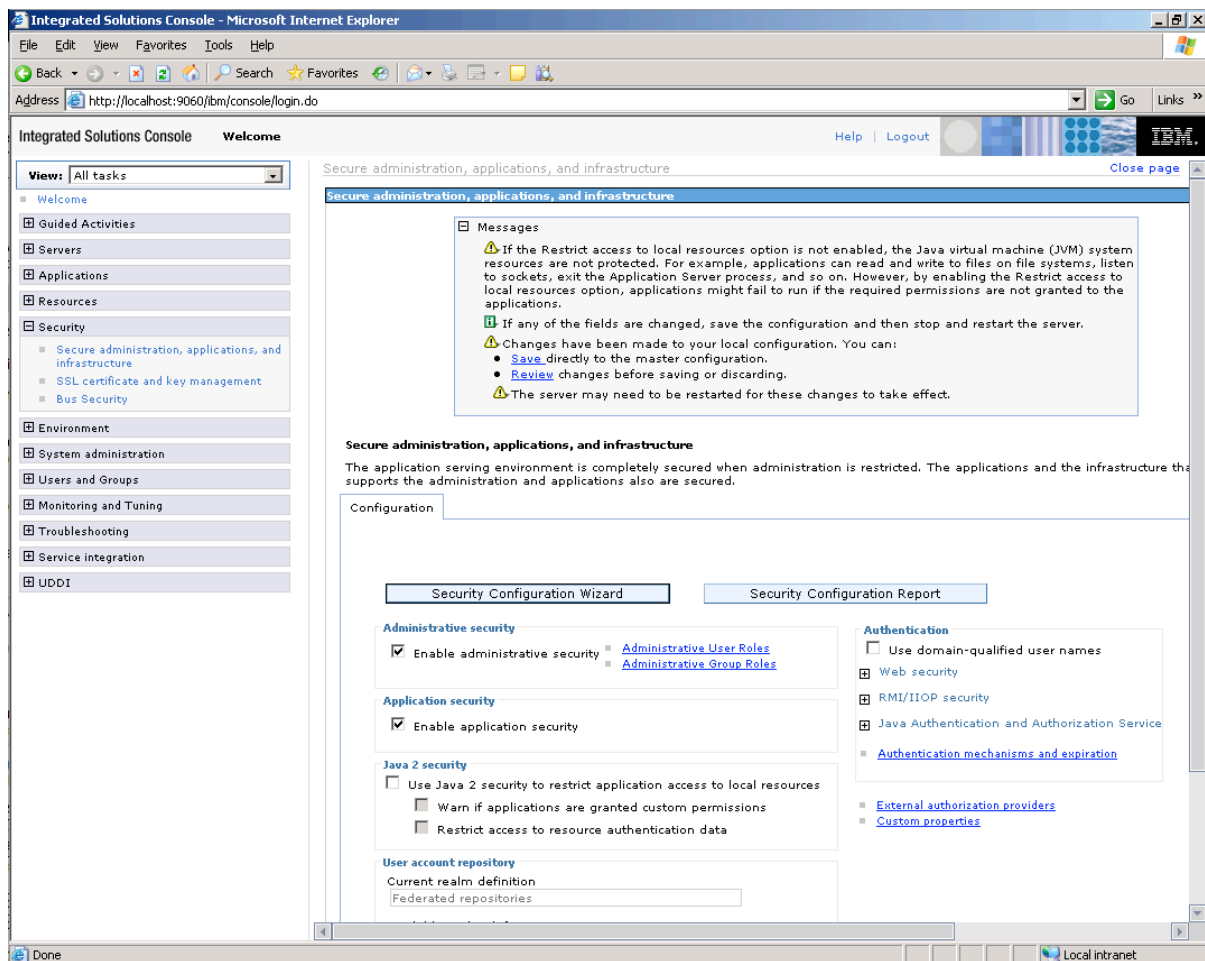


Deselect Use Java 2 security to restrict application access to local resources. Ensure your screen looks like the screen below (especially that Federated Repositories is selected under Current Realm definition and well as Available realm definitions).

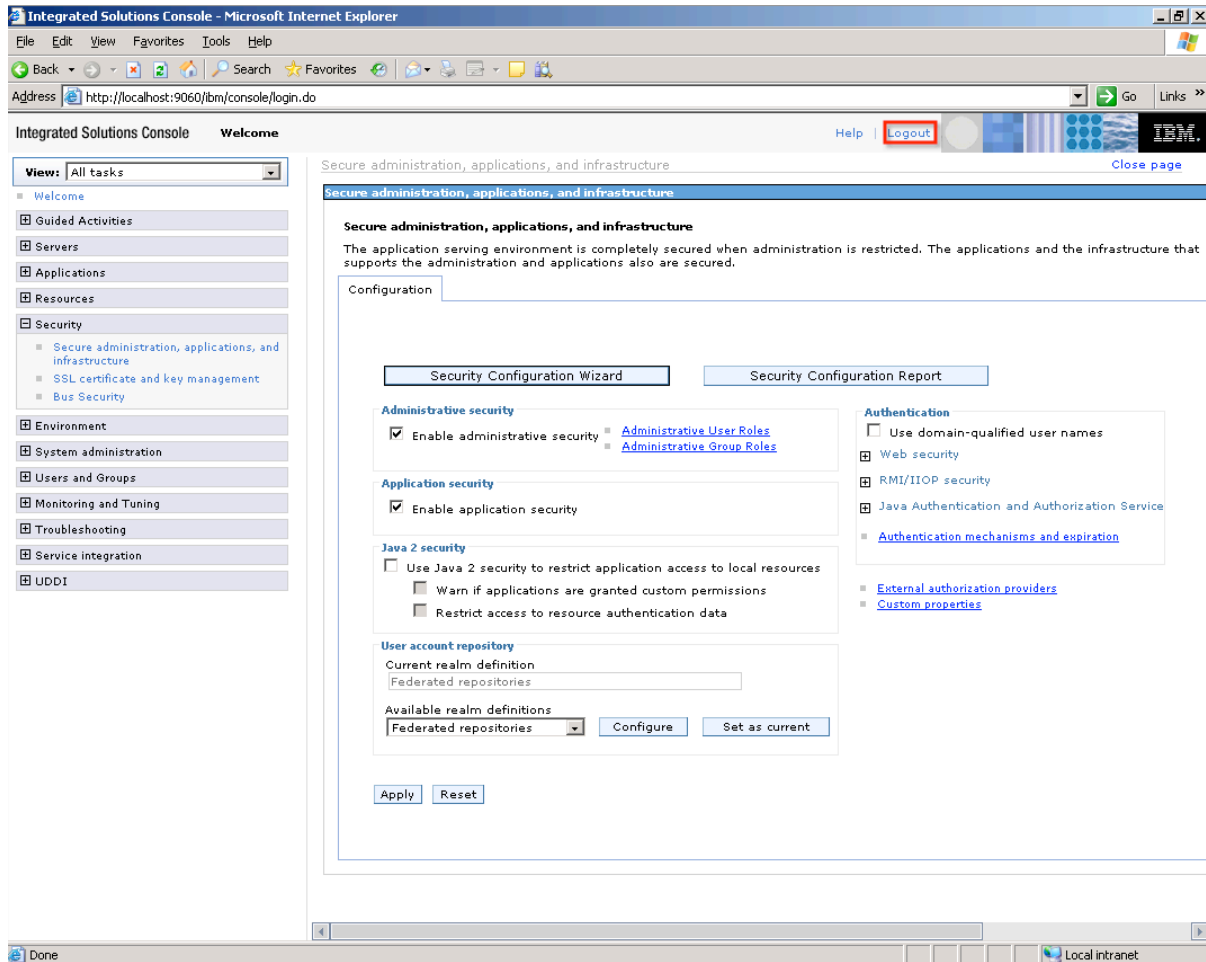


Press Apply

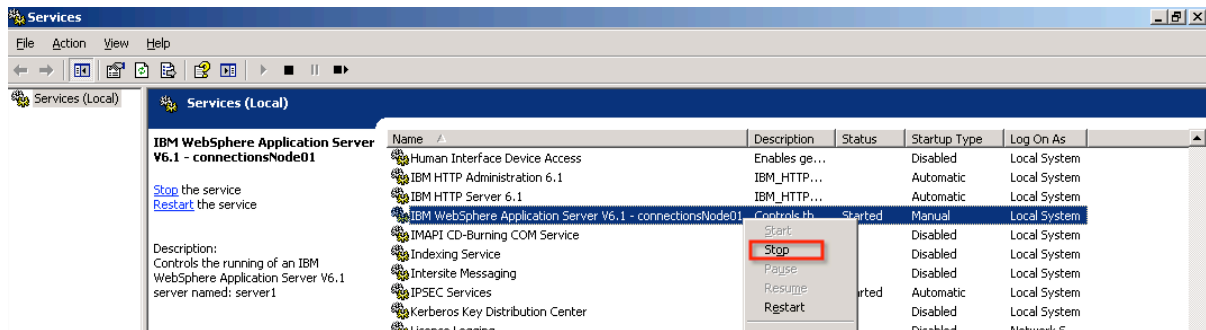
Your screen should look like this



Click Save at the top of the screen. You will see this screen. Click Logout and close the browser.



From the services screen right click WebSphere Application Server 6.1 - <hostname>Node01 and select stop.



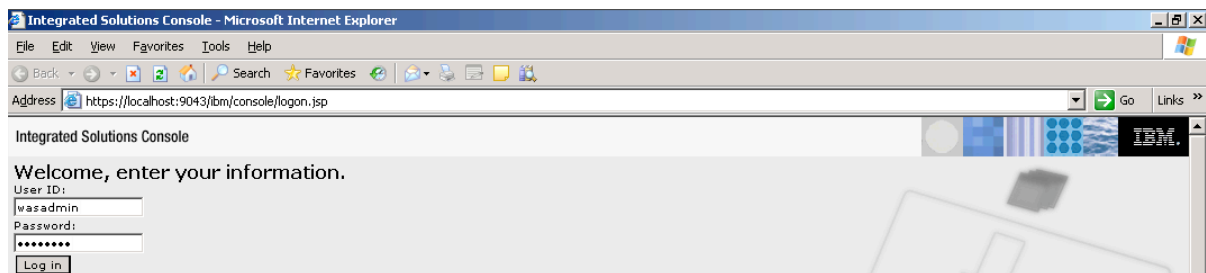
**Note - this is the last time you will stop WebSphere from the services screen. It now needs a password – therefore you will run the following from <wasinstall>\bin**

```
stopserver server1 -username <wasadminuser> -password <wasadminpwd>
```

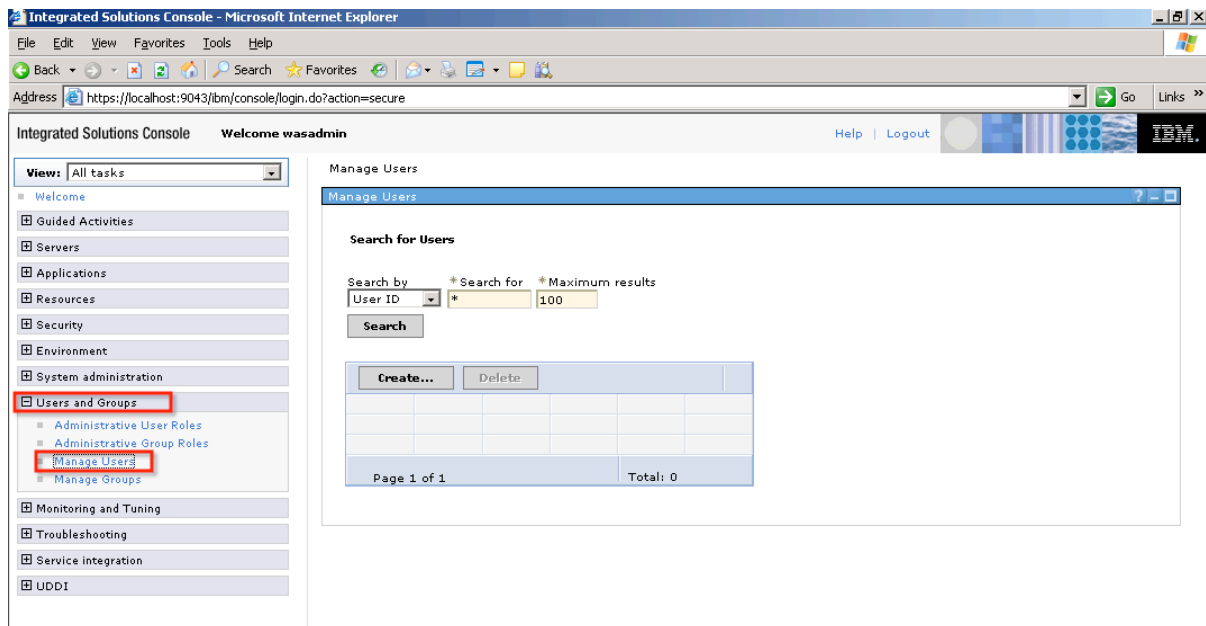
From the Services screen right click IBM WebSphere Application Server 6.1- <hostname>Node01 and select start

Relaunch the Administrative console from the Start menu. You may receive warnings about viewing a page over a secure connections - accept these

Now you will need to enter <wasadminuser> and <wasadminpwd> to log in



Click Users and Groups then Manage Users



Click Search. If the setup has been successful you should see your LDAP users in either Active Directory or Domino. This confirms Federated Repositories setup has been successful.

Integrated Solutions Console - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites

Address https://localhost:9043/ibm/console/login.do?action=secure Go Links

Integrated Solutions Console Welcome wasadmin Help Logout IBM

View: All tasks

Welcome

Guided Activities

Servers

Applications

Resources

Security

Environment

System administration

Users and Groups

- Administrative User Roles
- Administrative Group Roles
- Manage Users
- Manage Groups

Monitoring and Tuning

Troubleshooting

Service integration

UDDI

Manage Users

Search for Users

Search by \* Search for \* Maximum results

User ID \* 100

Search

4 users matched the search criteria.

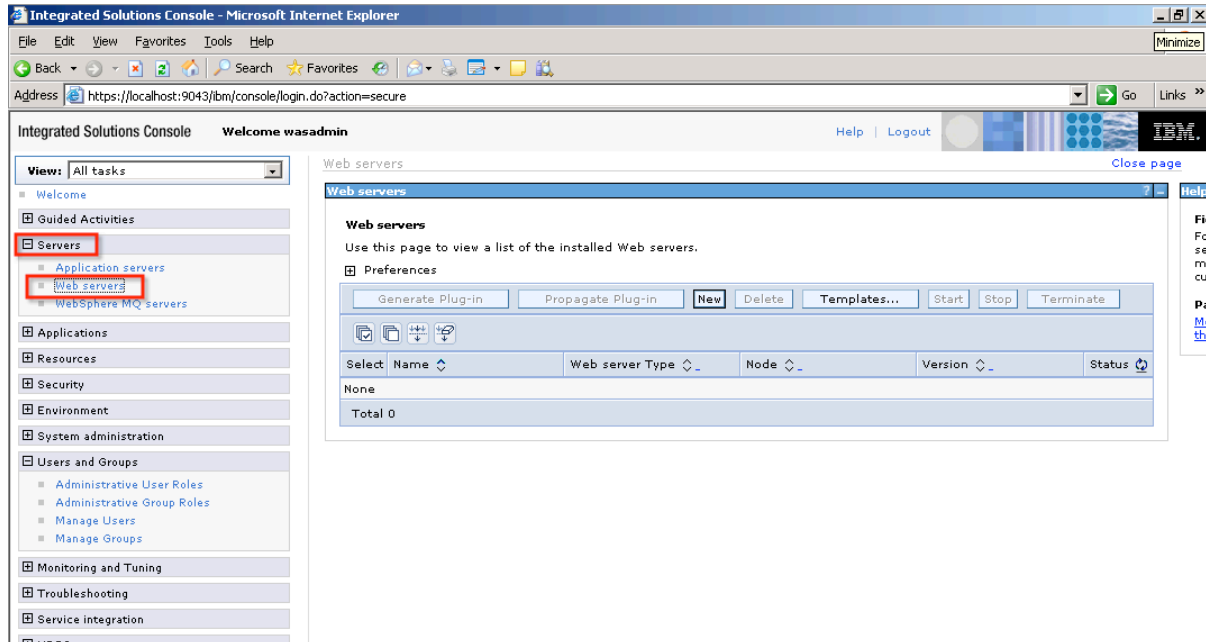
Create... Delete Select an action...

Select	User ID	First name	Last name	E-mail	Unique Name
<input type="checkbox"/>	<a href="#">caspar.craven</a>	Caspar Craven	Craven	Caspar.Craven@trovus.co.uk	CN=Caspar Craven,o=Trovus
<input type="checkbox"/>	<a href="#">domadmin</a>	domadmin	domadmin	domadmin/Trovus%Trovus@trovus.co.uk	CN=domadmin,o=Trovus
<input type="checkbox"/>	<a href="#">edward.charvet</a>	Edward Charvet	Charvet	Edward.Charvet@trovus.co.uk	CN=Edward Charvet,o=Trovus
<input type="checkbox"/>	<a href="#">jon.mell</a>	Jon Mell	Mell	Jon.Mell@trovus.co.uk	CN=Jon Mell,o=Trovus

Page 1 of 1 Total: 4

# Configure WebSphere to manage HTTP Server

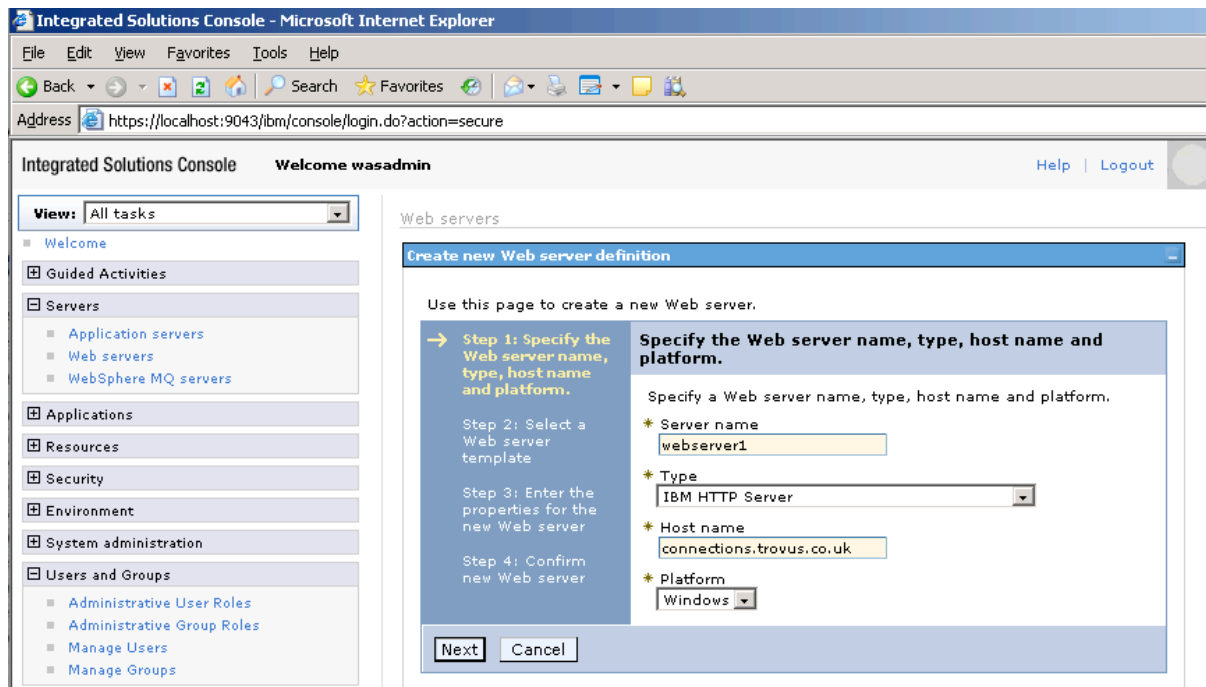
On the left hand side click Servers and Web servers



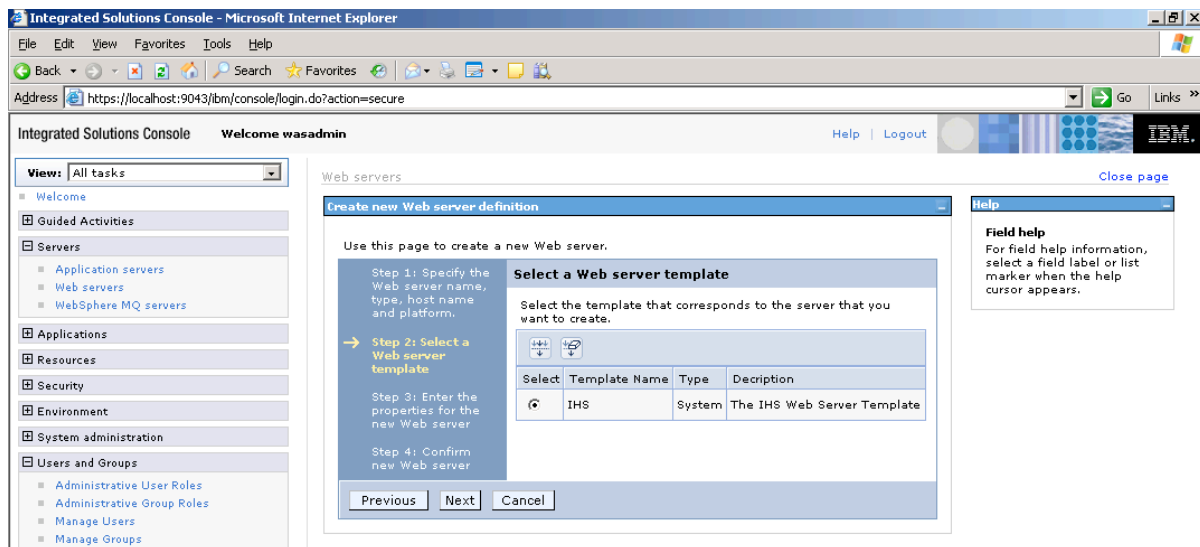
Click New.

Enter webserver1 for Server name and <fullyqualifiedname> for host name.

**Advanced:** if the web server is on a separate machine use the hostname of the web server.

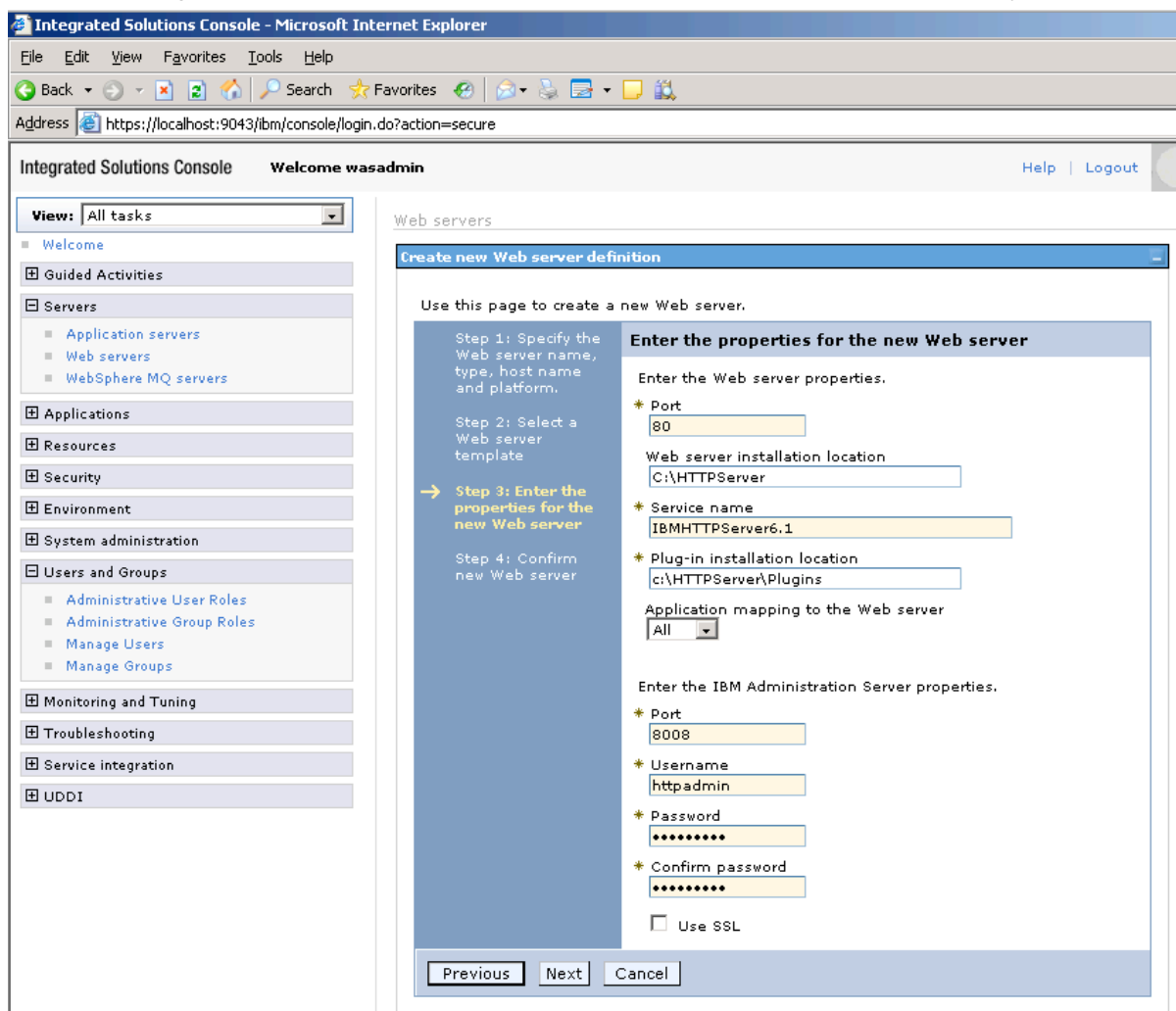


Click Next

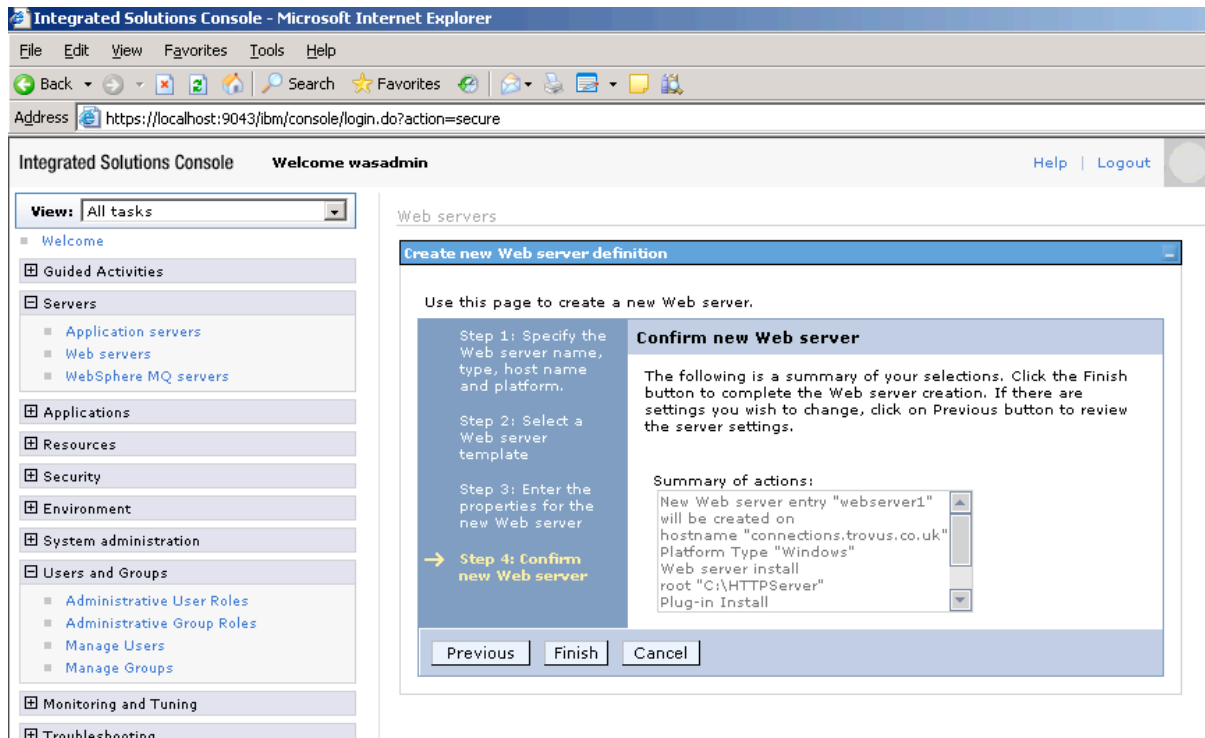


Accept the default template and click Next.

Enter the <httpduser> and <httppwd> as username and password and ensure the Web server installation location and Plugin installation point to <httpinstall> and <httpinstall>\plugins respectively.



Click Next. Review the screen below.



Integrated Solutions Console - Microsoft Internet Explorer

Address: https://localhost:9043/ibm/console/login.do?action=secure

Integrated Solutions Console Welcome wasadmin Help | Logout

View: All tasks

- Welcome
- Guided Activities
- Servers
  - Application servers
  - Web servers
  - WebSphere MQ servers
- Applications
- Resources
- Security
- Environment
- System administration
- Users and Groups
  - Administrative User Roles
  - Administrative Group Roles
  - Manage Users
  - Manage Groups
- Monitoring and Tuning
- Troubleshooting

Web servers

Create new Web server definition

Use this page to create a new Web server.

Step 1: Specify the Web server name, type, host name and platform.

Step 2: Select a Web server template

Step 3: Enter the properties for the new Web server

→ Step 4: Confirm new Web server

Confirm new Web server

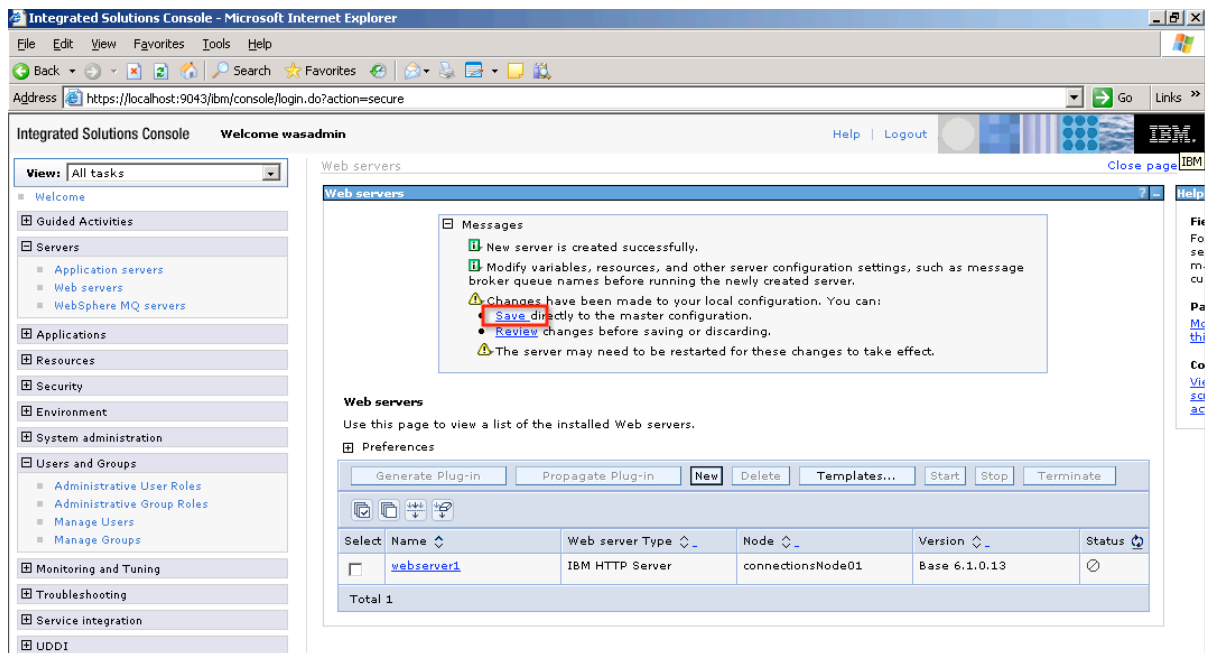
The following is a summary of your selections. Click the Finish button to complete the Web server creation. If there are settings you wish to change, click on Previous button to review the server settings.

Summary of actions:

New Web server entry "webserver1" will be created on hostname "connections.trovus.co.uk" Platform Type "Windows" Web server install root "C:\HTTPServer" Plug-in Install

Previous Finish Cancel

Click Finish



Integrated Solutions Console - Microsoft Internet Explorer

Address: https://localhost:9043/ibm/console/login.do?action=secure

Integrated Solutions Console Welcome wasadmin Help | Logout

View: All tasks

- Welcome
- Guided Activities
- Servers
  - Application servers
  - Web servers
  - WebSphere MQ servers
- Applications
- Resources
- Security
- Environment
- System administration
- Users and Groups
  - Administrative User Roles
  - Administrative Group Roles
  - Manage Users
  - Manage Groups
- Monitoring and Tuning
- Troubleshooting
- Service Integration
- UDDI

Web servers

Web servers

Messages

- New server is created successfully.
- Modify variables, resources, and other server configuration settings, such as message broker queue names before running the newly created server.
- Changes have been made to your local configuration. You can:
  - Save directly to the master configuration.
  - Review changes before saving or discarding.
- The server may need to be restarted for these changes to take effect.

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	Version	Status
<input type="checkbox"/>	webserver1	IBM HTTP Server	connectionsNode01	Base 6.1.0.13	OK

Total 1

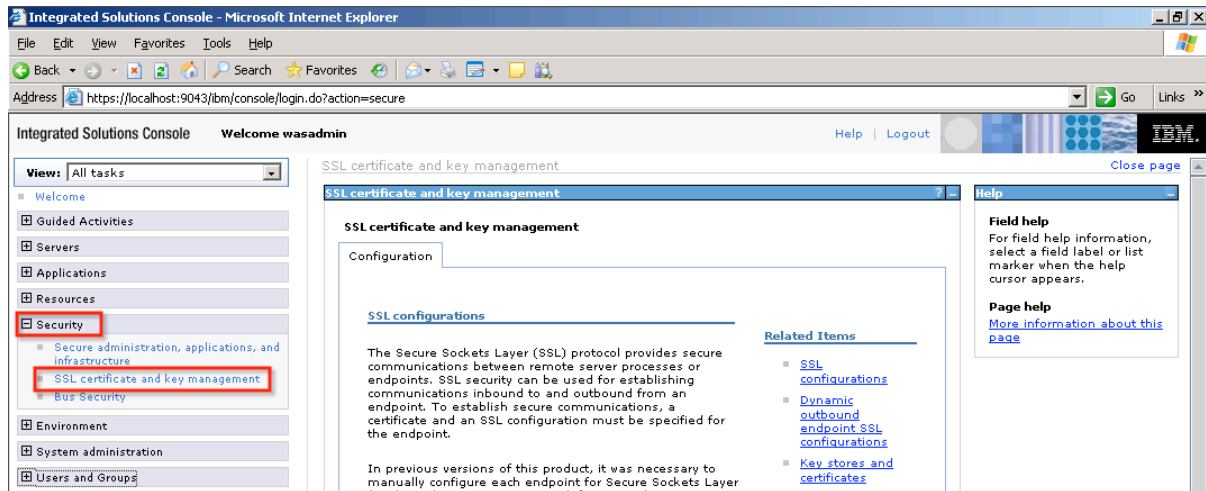
Click Save



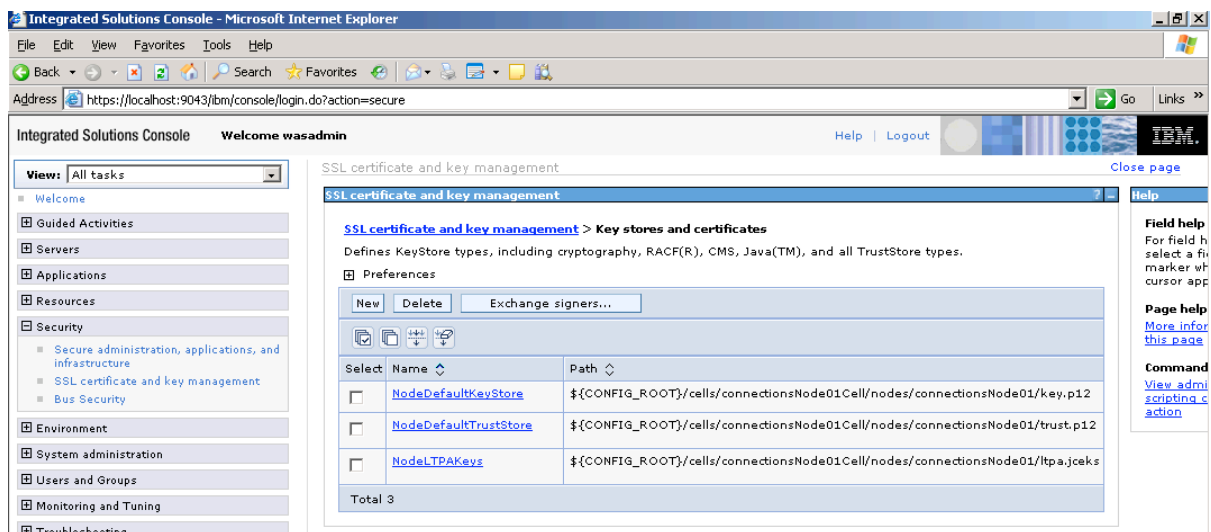
# Configure IBM HTTP Server for SSL

**Advanced:** for a production install (especially if public facing) do not use the default certificates. You should use third party certificates provided to you by your network administrator.

On the left hand side, click Security and SSL Certificate and Key Management



Click Key stores and certificates.



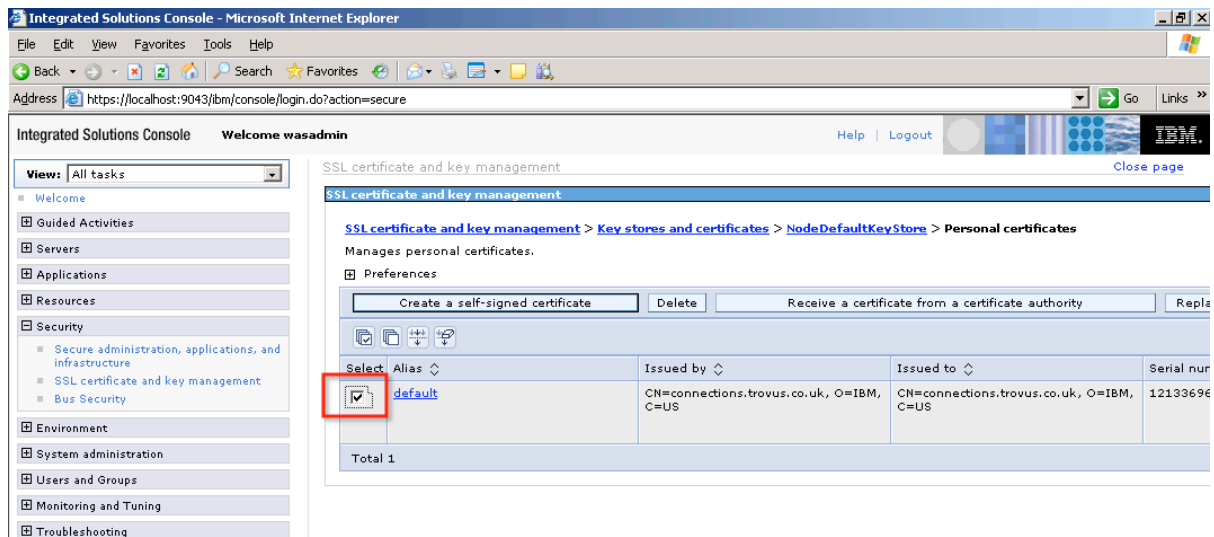
Click NodeDefaultKeyStore

The screenshot shows the Integrated Solutions Console interface in Microsoft Internet Explorer. The browser address bar displays `https://localhost:9043/ibm/console/login.do?action=secure`. The console header includes "Integrated Solutions Console" and "Welcome wasadmin". A left-hand navigation pane lists various categories like "Guided Activities", "Servers", "Applications", "Resources", "Security", "Environment", "System administration", "Users and Groups", "Monitoring and Tuning", "Troubleshooting", "Service integration", and "UDDI". The "Security" category is expanded, showing sub-items: "Secure administration, applications, and infrastructure", "SSL certificate and key management", and "Bus Security". The main content area is titled "SSL certificate and key management" and contains a breadcrumb trail: "SSL certificate and key management > Key stores and certificates > NodeDefaultKeyStore". Below the breadcrumb, a description states: "Defines KeyStore types, including cryptography, RACF(R), CMS, Java(TM), and all TrustStore types." The "Configuration" tab is active, displaying "General Properties" and "Additional Properties". Under "General Properties", fields include "Name" (NodeDefaultKeyStore), "Path" (a file path involving CONFIG\_ROOT), "Change password", "Confirm password", "Type" (PKCS12), and checkboxes for "Read only", "Initialize at startup", and "Enable cryptographic operations on hardware device". The "Additional Properties" section lists links for "Signer certificates", "Personal certificates", "Personal certificate requests", and "Custom properties". At the bottom of the configuration area are buttons for "Apply", "OK", "Reset", and "Cancel".

Click Personal certificates

The screenshot shows the Integrated Solutions Console interface in Microsoft Internet Explorer, displaying the "Personal certificates" page. The browser address bar displays `https://localhost:9043/ibm/console/login.do?action=secure`. The console header includes "Integrated Solutions Console" and "Welcome wasadmin". The left-hand navigation pane is the same as in the previous screenshot, with "Security" > "SSL certificate and key management" selected. The main content area is titled "SSL certificate and key management" and contains a breadcrumb trail: "SSL certificate and key management > Key stores and certificates > NodeDefaultKeyStore > Personal certificates". Below the breadcrumb, a description states: "Manages personal certificates." The "Preferences" section is active, showing buttons for "Create a self-signed certificate", "Delete", "Receive a certificate from a certificate authority", and "Repla". Below these buttons is a table with columns: "Select", "Alias", "Issued by", "Issued to", and "Serial num". The table contains one entry with the alias "default" and a serial number "12133696". At the bottom of the table, it says "Total 1".

Select the check box next to default and press Extract (you may need to scroll along to see the Extract button)



Integrated Solutions Console - Microsoft Internet Explorer

Address: <https://localhost:9043/ibm/console/login.do?action=secure>

Integrated Solutions Console Welcome wasadmin Help Logout

View: All tasks

- Welcome
- Guided Activities
- Servers
- Applications
- Resources
- Security
  - Secure administration, applications, and infrastructure
  - SSL certificate and key management
  - Bus Security
- Environment
- System administration
- Users and Groups
- Monitoring and Tuning
- Troubleshooting

SSL certificate and key management Close page

SSL certificate and key management > Key stores and certificates > NodeDefaultKeyStore > Personal certificates

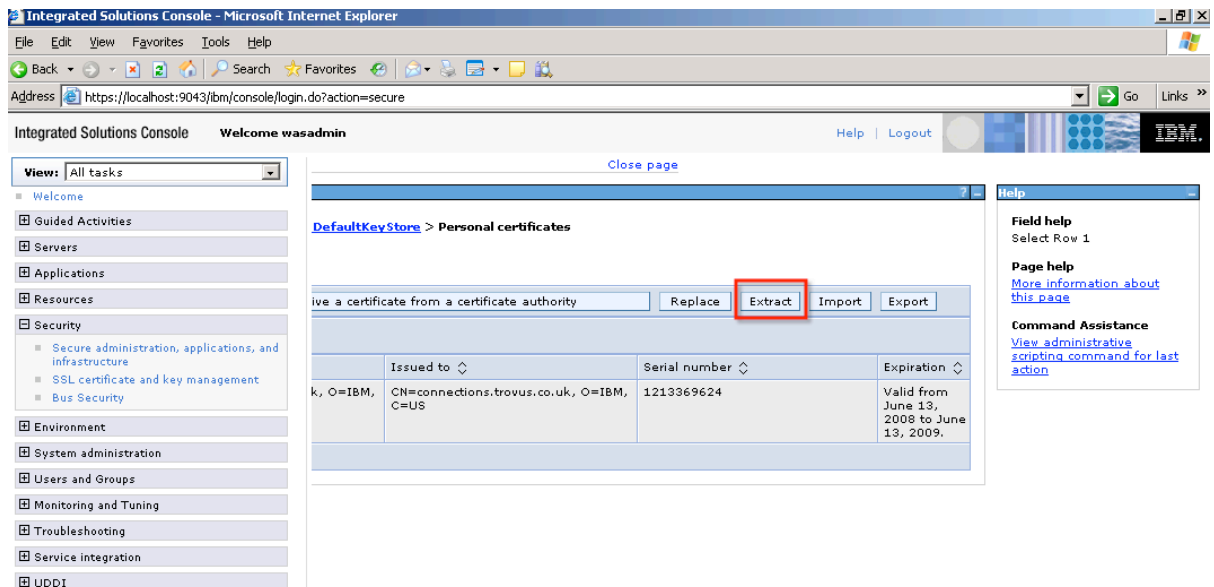
Manages personal certificates.

Preferences

Create a self-signed certificate Delete Receive a certificate from a certificate authority Replace

Select	Alias	Issued by	Issued to	Serial number
<input checked="" type="checkbox"/>	default	CN=connections.trovus.co.uk, O=IBM, C=US	CN=connections.trovus.co.uk, O=IBM, C=US	1213369624

Total 1



Integrated Solutions Console - Microsoft Internet Explorer

Address: <https://localhost:9043/ibm/console/login.do?action=secure>

Integrated Solutions Console Welcome wasadmin Help Logout

View: All tasks

- Welcome
- Guided Activities
- Servers
- Applications
- Resources
- Security
  - Secure administration, applications, and infrastructure
  - SSL certificate and key management
  - Bus Security
- Environment
- System administration
- Users and Groups
- Monitoring and Tuning
- Troubleshooting
- Service integration
- UDDI

Close page

DefaultKeyStore > Personal certificates

Receive a certificate from a certificate authority Replace Extract Import Export

Issued to	Serial number	Expiration
CN=connections.trovus.co.uk, O=IBM, C=US	1213369624	Valid from June 13, 2008 to June 13, 2009.

Field help  
Select Row 1

Page help  
[More information about this page](#)

Command Assistance  
[View administrative scripting command for last action](#)

For certificate file name use `waskey.arm` and place in `<httpinstall>`

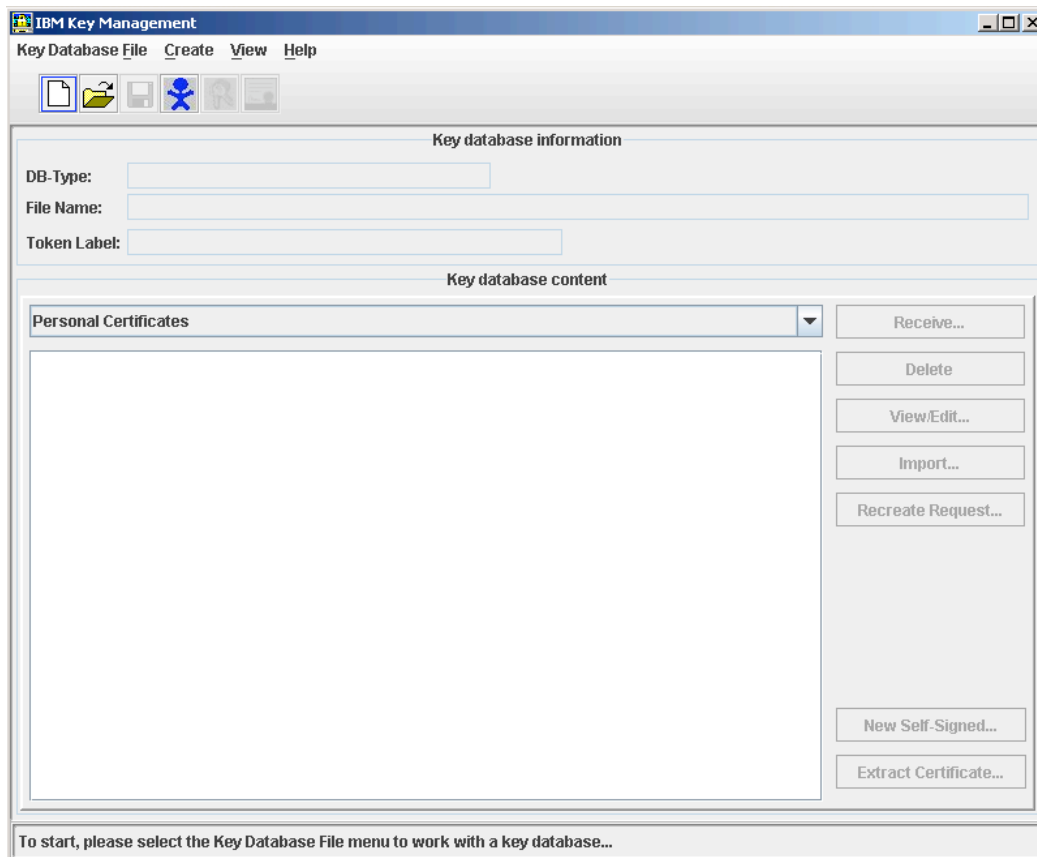
The screenshot shows the Integrated Solutions Console interface in a Microsoft Internet Explorer browser. The address bar displays `https://localhost:9043/ibm/console/login.do?action=secure`. The console header includes the title "Integrated Solutions Console - Microsoft Internet Explorer" and a "Welcome wasadmin" message with "Help" and "Logout" links. On the left, a navigation pane lists various tasks, with "Security" expanded to show "SSL certificate and key management". The main content area is titled "SSL certificate and key management" and contains a breadcrumb trail: `SSL certificate and key management > Key stores and certificates > NodeDefaultKeyStore > Personal certificates > Extract certificate`. Below the breadcrumb, a description states: "Extracts a certificate from the key store to be added to another key store as a trusted certificate (signer)." A "Configuration" tab is active, showing the "General Properties" section. This section includes a text field for "Certificate alias to extract" with the value "default", a required field for "Certificate file name" with the value `c:\httpserver\waskey.arm`, and a dropdown for "Data type" set to "Base64-encoded ASCII data". At the bottom of the configuration area are buttons for "Apply", "OK", "Reset", and "Cancel".

Click OK.

Click Logout and close the browser.

From a command line navigate to <wasinstall>\bin

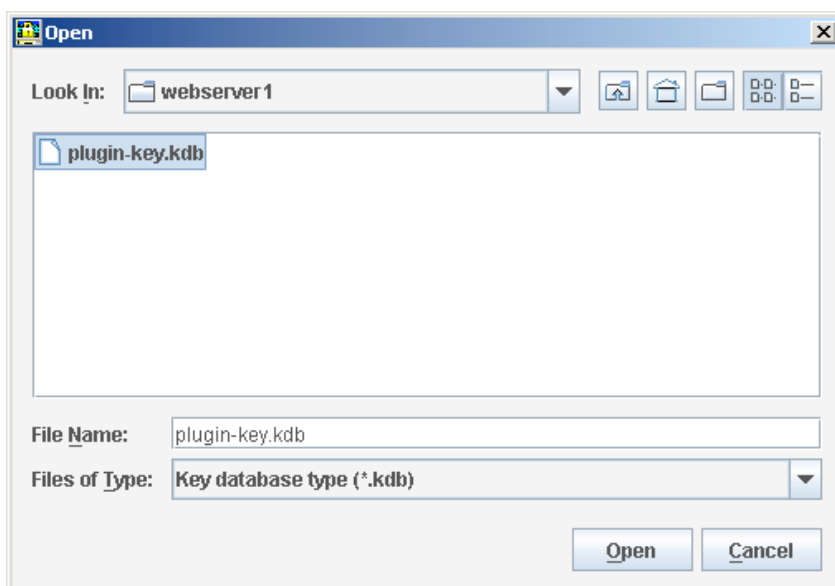
Run ikeyman.bat



From the menu select Key Database File and Open.

Change the Key database type to CMS.

Browse to <httpinstall>\Plugins\config\webserver1 and select plugin-key.kdb (eg c:\httpserver\plugins\config\webserver1\plugin-key.kdb)



Click Open

**Open**

Key database type: **CMS**

File Name:  **Browse...**

Location:

**OK** **Cancel**

Click OK. When prompted for a password use webAS (case sensitive). You should see the following screen

**IBM Key Management** - [C:\HTTPServer\Plugins\config\webserver1\plugin-key.kdb]

Key Database File Create View Help

Key database information

DB-Type: CMS key database file

File Name: C:\HTTPServer\Plugins\config\webserver1\plugin-key.kdb

Token Label:

Key database content

Personal Certificates

\* WebSphere Plugin Key

Receive...  
Delete  
View/Edit...  
Export/Import...  
Recreate Request...  
New Self-Signed...  
Extract Certificate...

The requested action has successfully completed!

Change the drop down from Personal Certificates to Signer Certificates

The screenshot shows the IBM Key Management console window titled "IBM Key Management - [C:\HTTPServer\Plugins\config\webserver1\plugin-key.kdb]". The window has a menu bar with "Key Database File", "Create", "View", and "Help". Below the menu bar is a toolbar with icons for file operations. The main content area is divided into two sections: "Key database information" and "Key database content".

**Key database information:**

- DB-Type: CMS key database file
- File Name: C:\HTTPServer\Plugins\config\webserver1\plugin-key.kdb
- Token Label: (empty)

**Key database content:**

A dropdown menu is highlighted with a red box, showing "Signer Certificates". Below the dropdown is a list of certificates:

- WebSphere 5.0 Dummy Cert
- WebSphere New Dummy Server CA
- WebSphere Dummy Server CA
- WebSphere Dummy CA
- Thawte Personal Premium CA
- Thawte Personal Freemail CA
- Thawte Personal Basic CA
- Thawte Premium Server CA
- Thawte Server CA
- Verisign Test CA Root Certificate
- RSA Secure Server Certification Authority
- VeriSign Class 1 CA Individual Subscriber-Persona Not Validated
- VeriSign Class 2 CA Individual Subscriber-Persona Not Validated
- VeriSign Class 3 CA Individual Subscriber-Persona Not Validated
- Verisign Class 1 Public Primary Certification Authority
- Verisign Class 2 Public Primary Certification Authority
- Verisign Class 3 Public Primary Certification Authority

On the right side of the list are four buttons: "Add...", "Delete", "View/Edit...", and "Extract...".

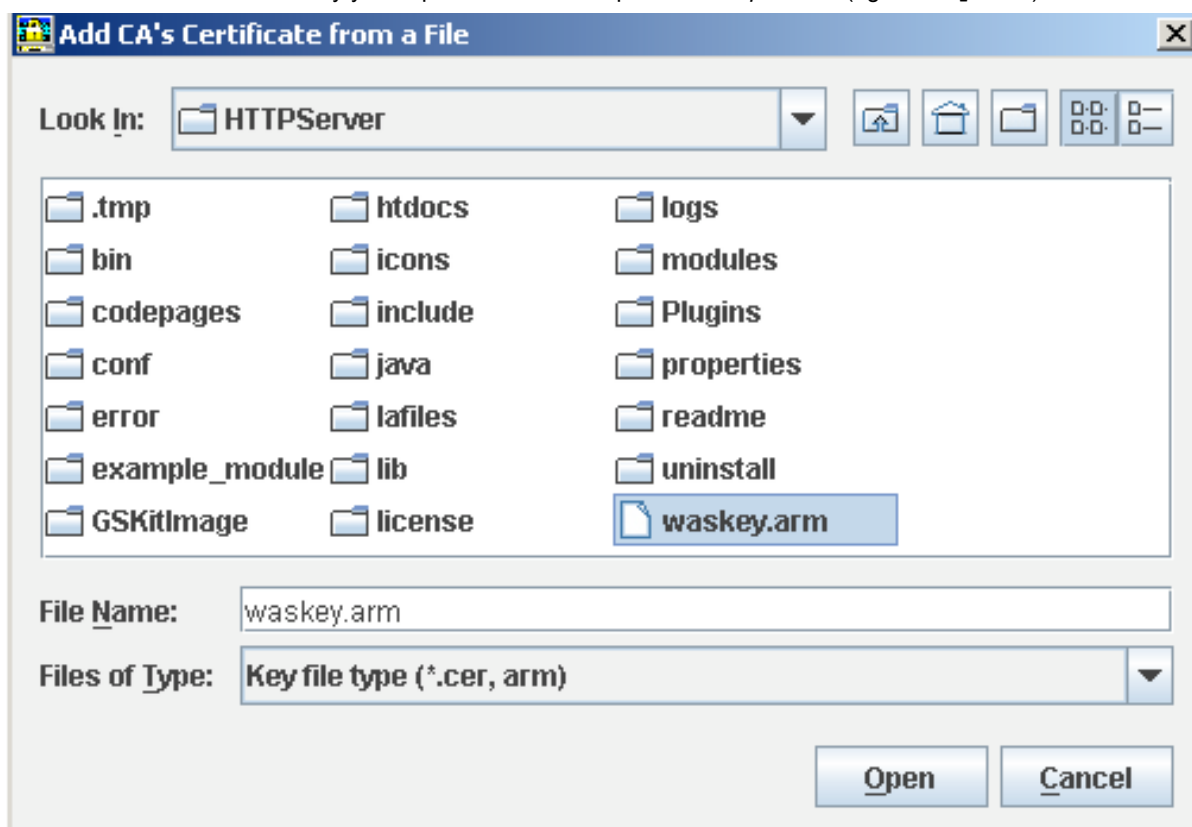
At the bottom of the window, a status bar reads: "A signer certificate is from a certification authority (CA) or from another web site."

Click Add

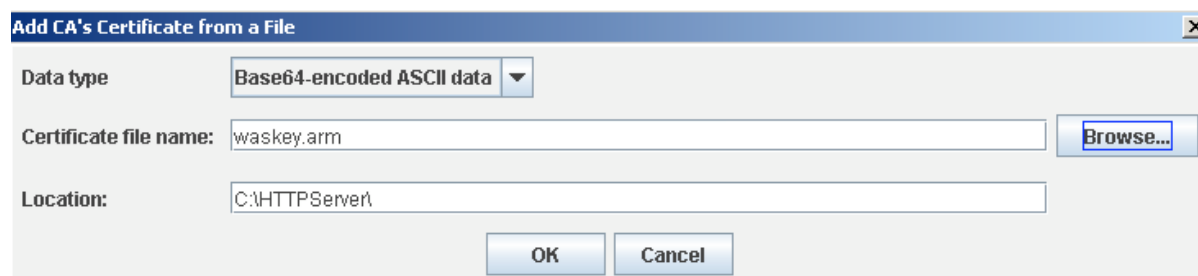
The screenshot shows the "Add CA's Certificate from a File" dialog box. It has a title bar with a close button. The dialog contains the following fields and buttons:

- Data type:** A dropdown menu set to "Base64-encoded ASCII data".
- Certificate file name:** A text field containing "\*.arm".
- Location:** A text field containing "C:\WebSphere\AppServer\bin\".
- Buttons:** "Browse...", "OK", and "Cancel".

Click Browse and select the key you exported from WebSphere in *<httpinstall>* (eg *waskey.arm*)



Click Open



Click OK

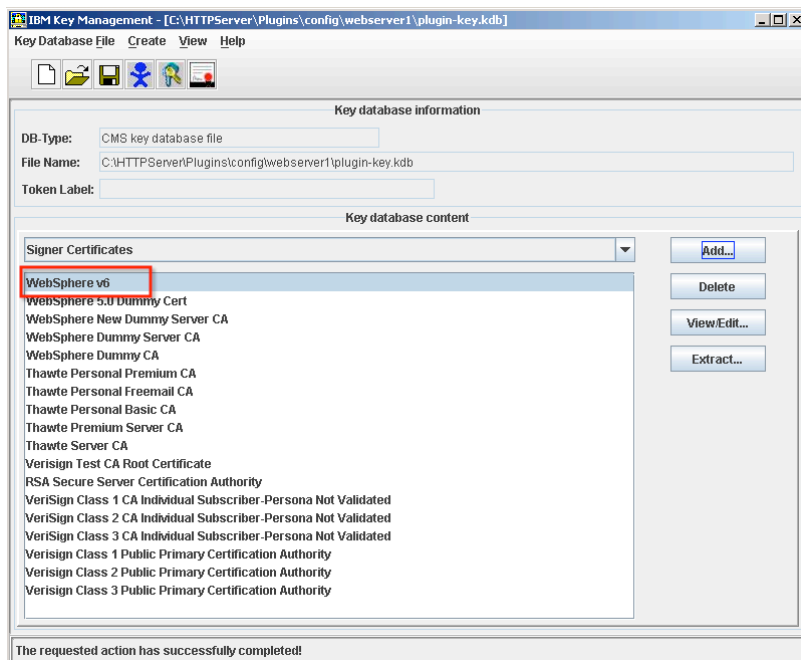
Enter a label (eg WebSphere v6)



Click OK



You should see the new key added



Close the utility (you do not need to save these key files).

Open the httpd.conf file in `<httpinstall>\conf`

Search for the line

```
#LoadModule headers_module modules/mod_headers.so
```

and delete the # to enable headers

Search for the line

```
#LoadModule rewrite_module modules/mod_rewrite.so
```

and delete the # to enable rewriting

At the end of the file - add the following:

```
RewriteEngine on
LoadModule ibm_ssl_module modules/mod_ibm_ssl.so
Listen 0.0.0.0:443
<VirtualHost *:443>
RewriteEngine on
SSLEnable
SSLProxyEngine on
ServerName <fullyqualifiedname>
</VirtualHost>
SSLDisable
Keyfile "<httpinstall>\plugins\config\webserver1\plugin-key.kdb"
SSLStashFile "<httpinstall>\plugins\config\webserver1\plugin-key.sth"
```

Remember that `<fullyqualifiedname>` needs to be substituted with your fully qualified hostname.

Eg:

```
ServerName connections.trovus.co.uk
```

```
Keyfile "c:\httpserver\plugins\config\webserver1\plugin-key.kdb"
```

```
SSLStashFile "c:\httpserver\plugins\config\webserver1\plugin-key.sth"
```

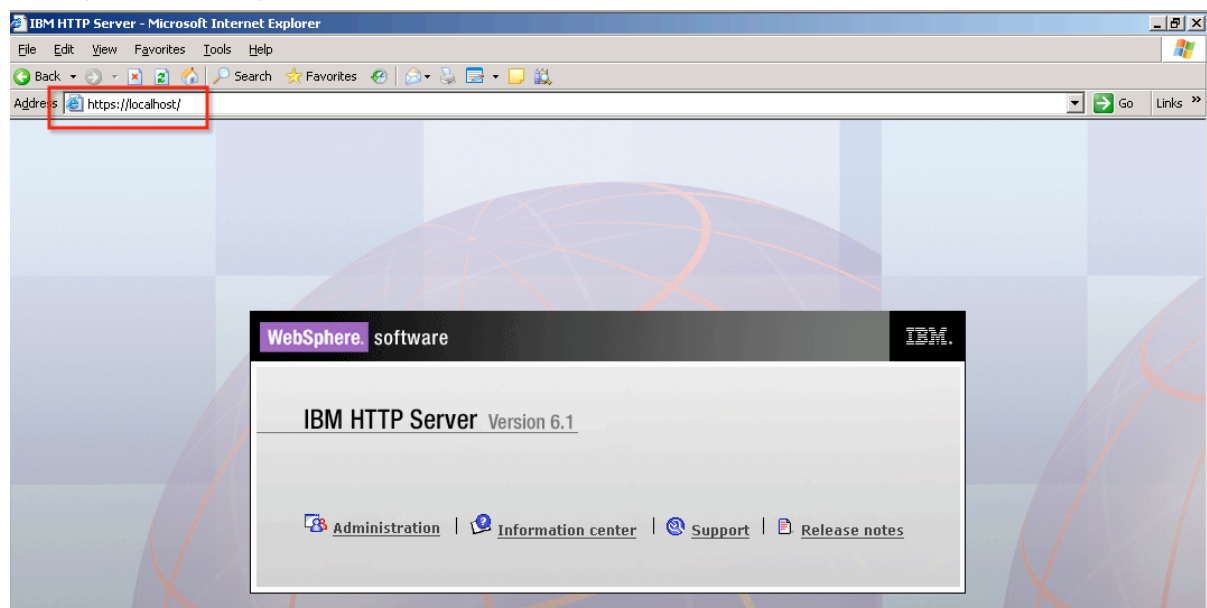
Save the httpd.conf file.

Click Start -> All Programs -> IBM HTTP Server 6.1 -> Stop HTTP Server

Click Start -> All Programs -> IBM HTTP Server 6.1 -> Start HTTP Server

**Note** I often have problems starting and restarting HTTP Server with the process hanging. If this happens launch the task manager (press CTRL-ALT-DEL and select Task Manager) and end all the Apache.exe processes then try starting the HTTP server again.

Check you can access your HTTP Server from <http://localhost> and <https://localhost>



## Create databases

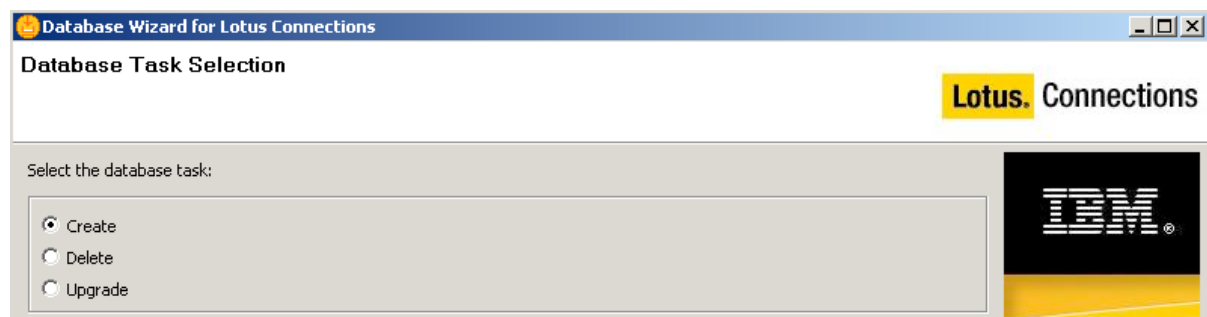
Extract the Connections Database Wizards media.

Run dbWizard.bat

**Advanced:** if using a separate database server run this on the database server machine

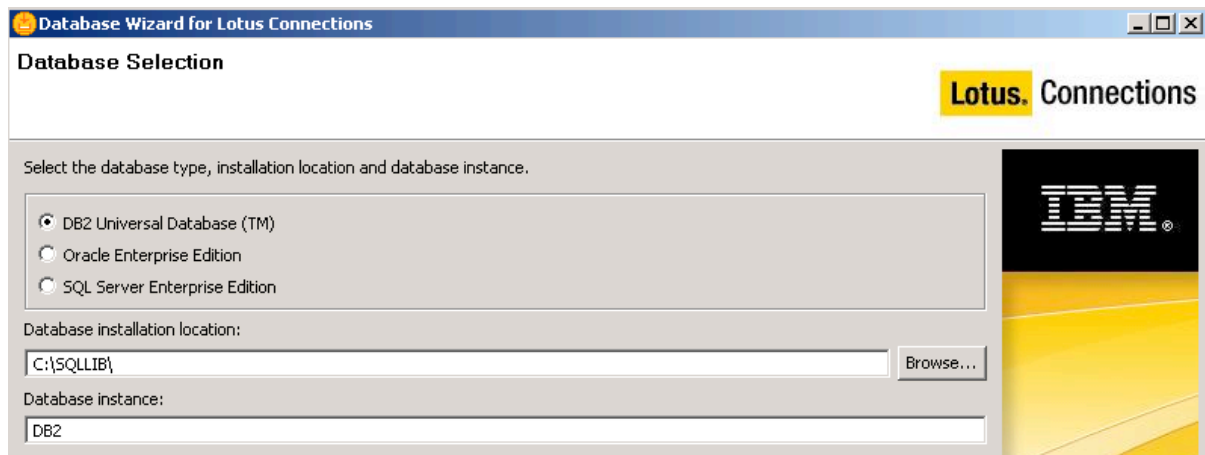
Click Next on the Welcome screen

Select Create



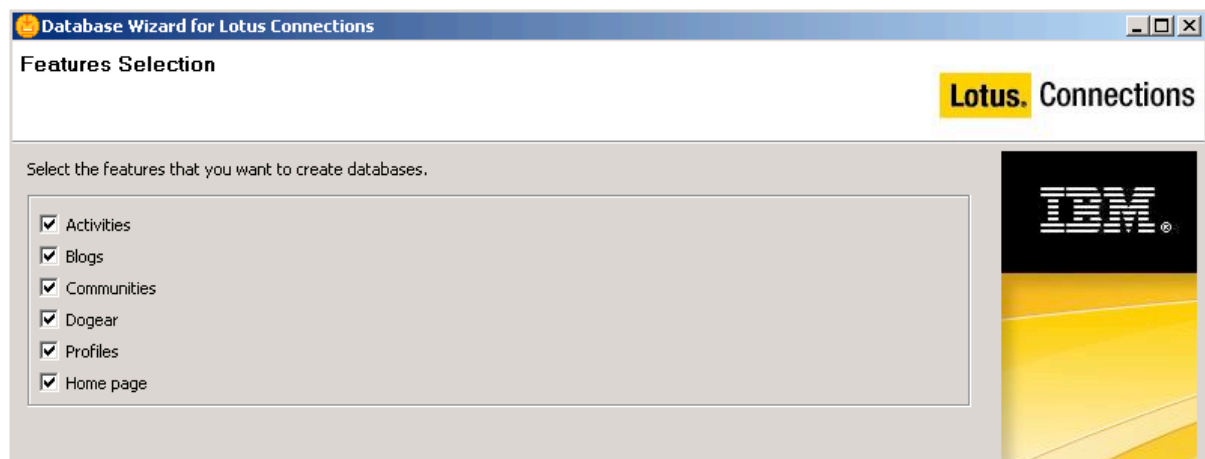
Click Next

Ensure DB2 is selected and that <db2install> is in the Database installation location field



Click Next

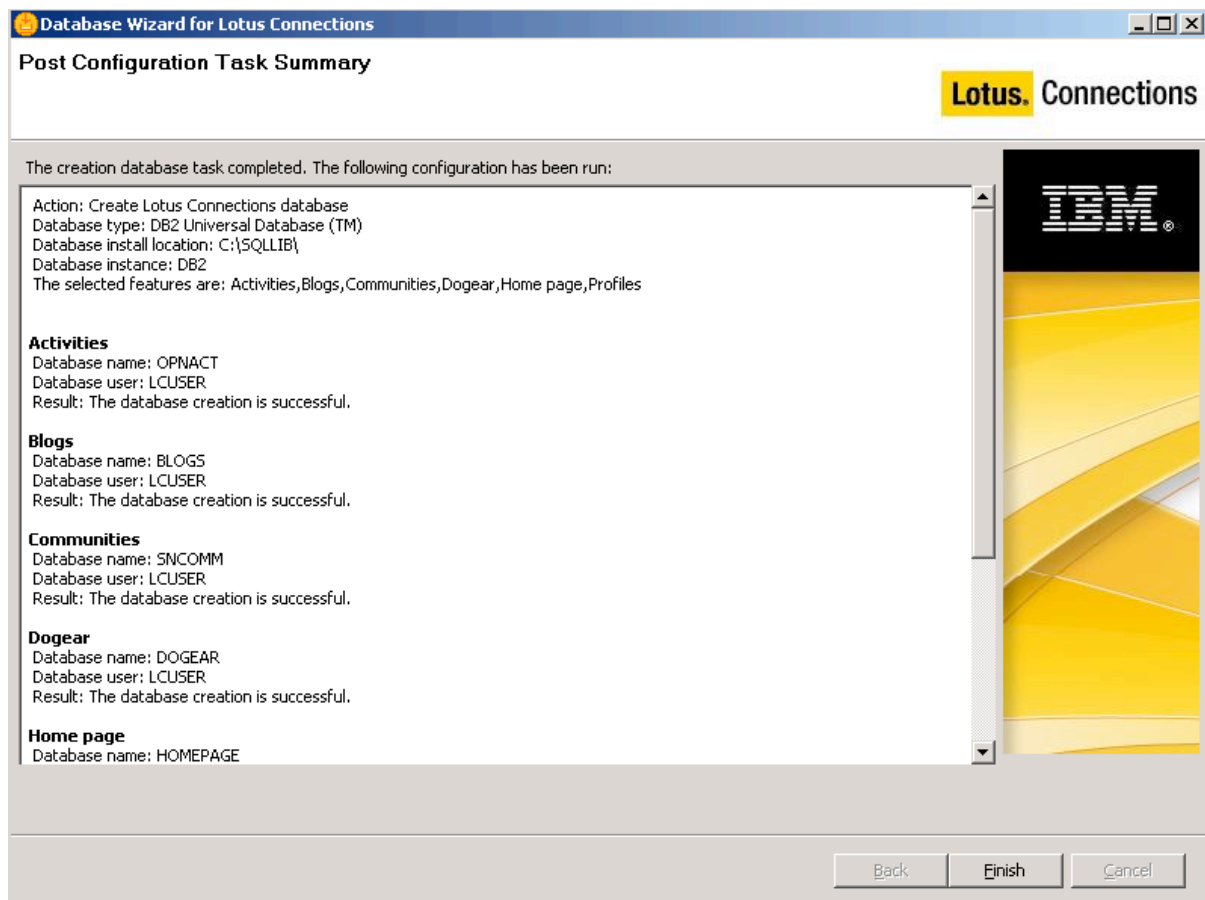
Ensure all databases are selected



Click Next

Click Create

You should see the following screen when completed.



Click Finish.

# Install Tivoli Directory Integrator

This step is only required if installing Profiles.

From the Tivoli Directory Integrator install image run Launchpad.

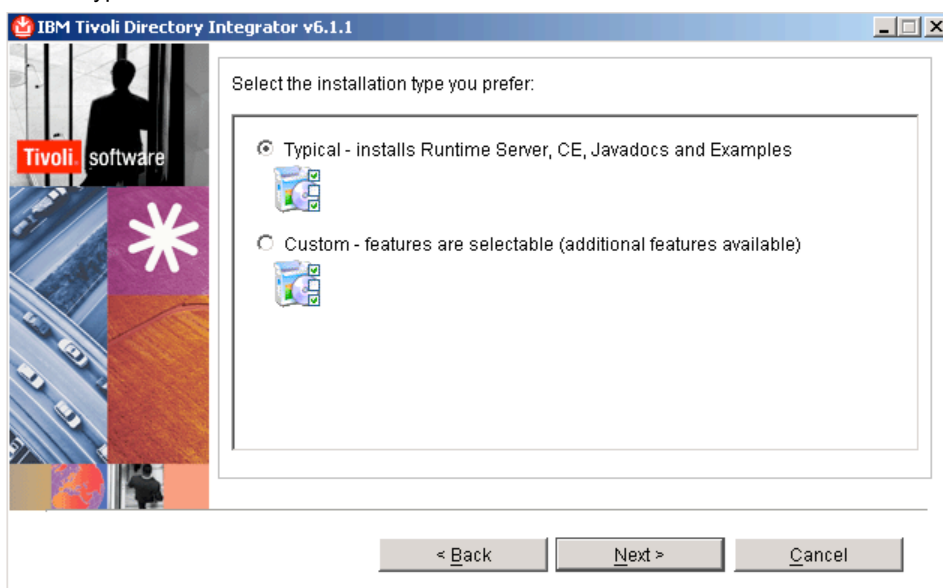
Click Install IBM Tivoli Directory Integrator on the left hand panel.

Click IBM Tivoli Directory Integrator 6.1.1 installer

Click Next on the Welcome screen.

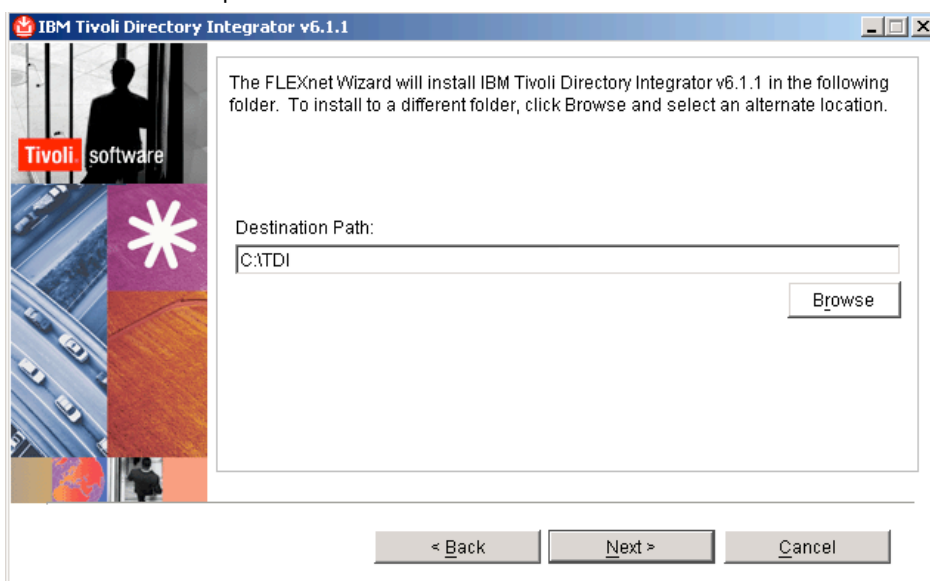
Accept the license terms and click Next

Select Typical.



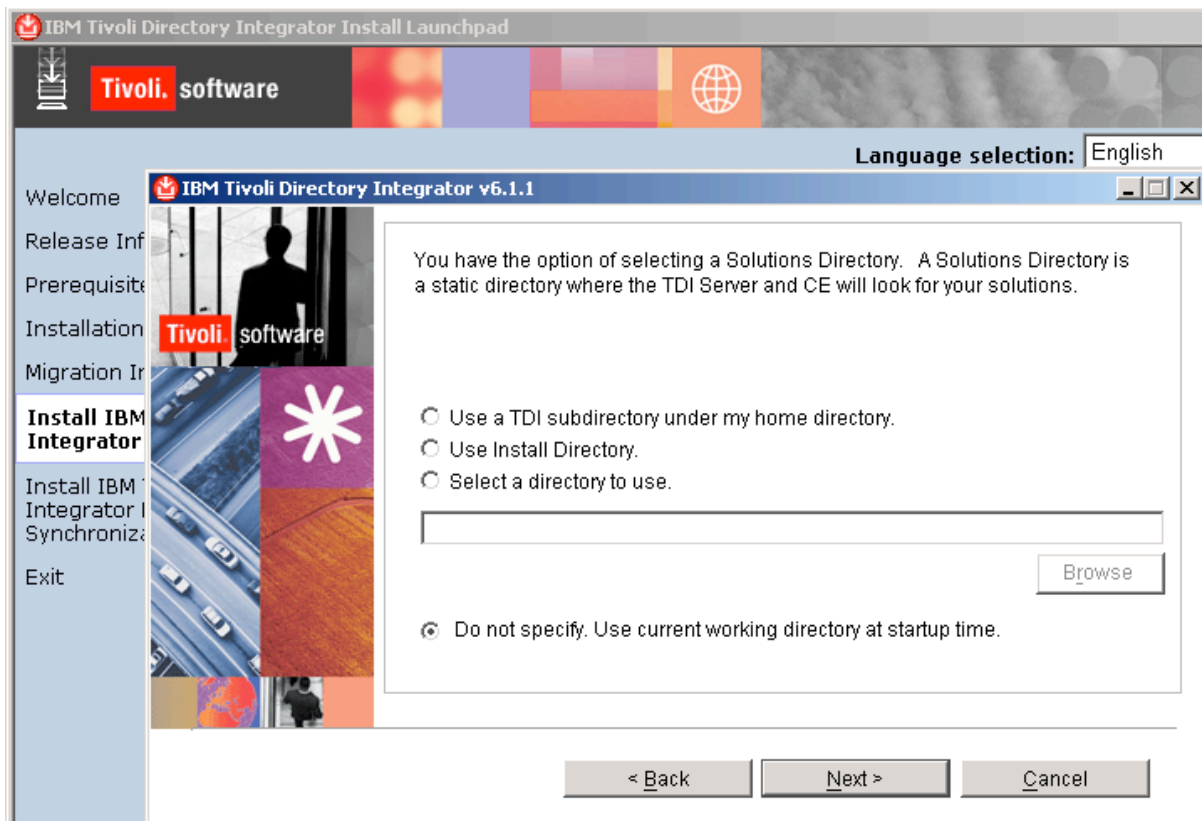
Press Next

Enter an installation path. This is <tdiinstall>.



Click next.

Click Do not specify. Use current working directory at startup time.



Click Next

Click Install

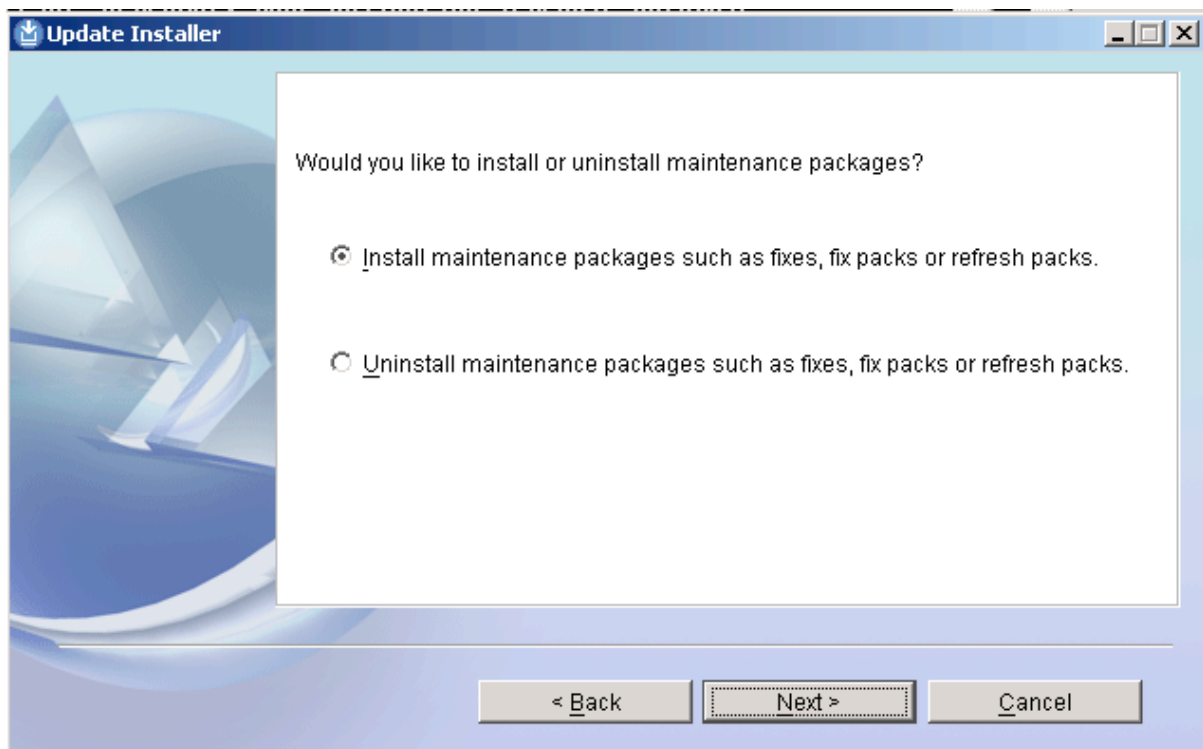
When the install completes with a successful message click Finish.

Unzip the Tivoli Directory Server 6.1.1 Fix pack 3 (see required software for location)

Run C:\Program Files\IBM\Common\ci\gmi\bin\gmi.cmd

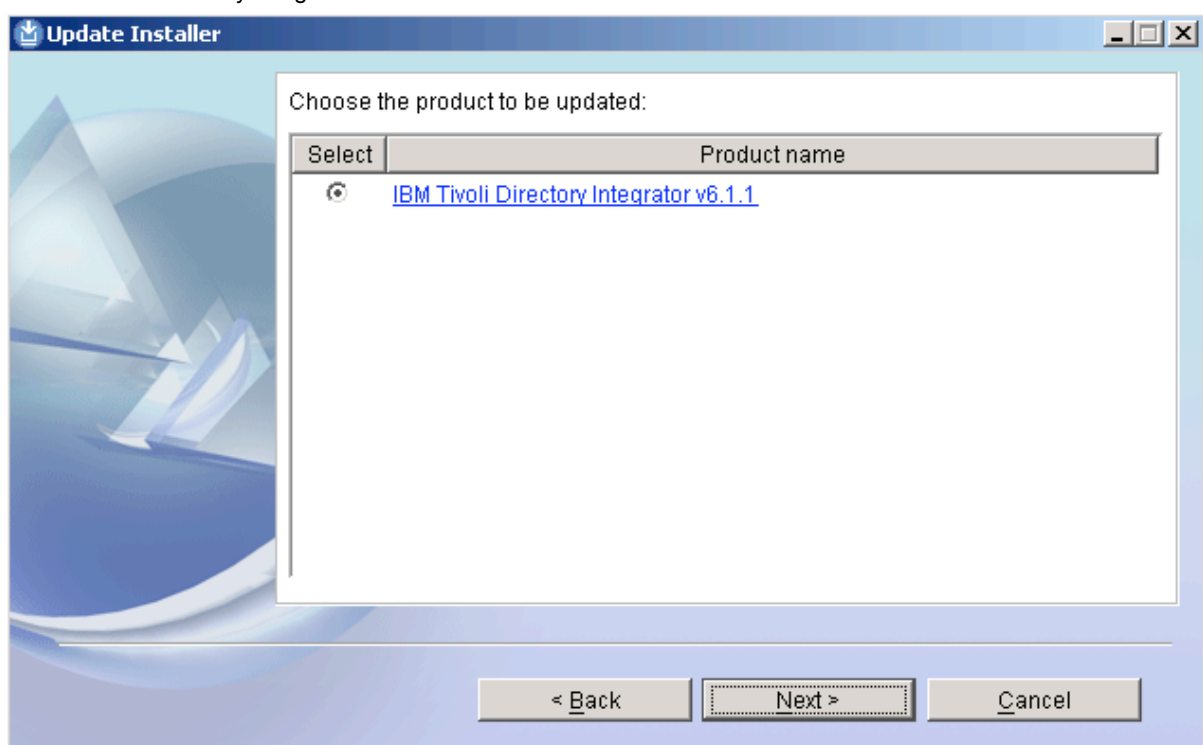
Click Next on the Welcome wizard.

Select Install maintenance packages

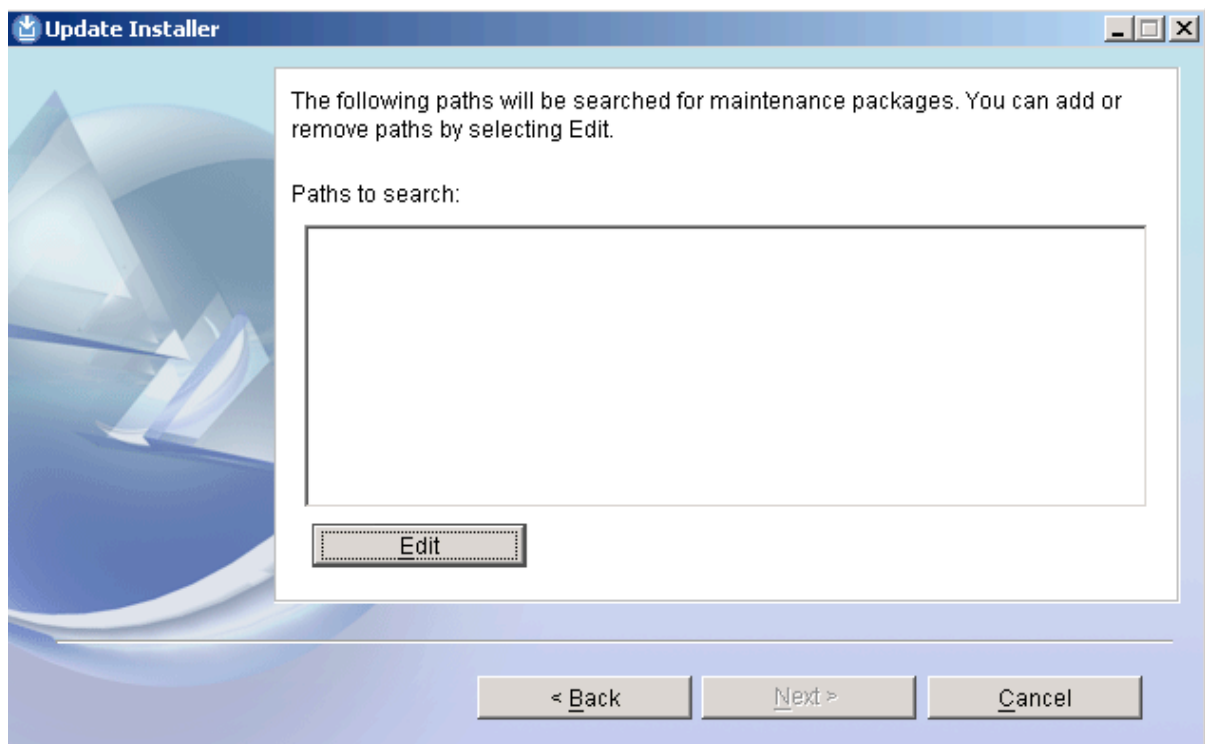


Click Next

Ensure Tivoli Directory Integrator 6.1.1 is selected

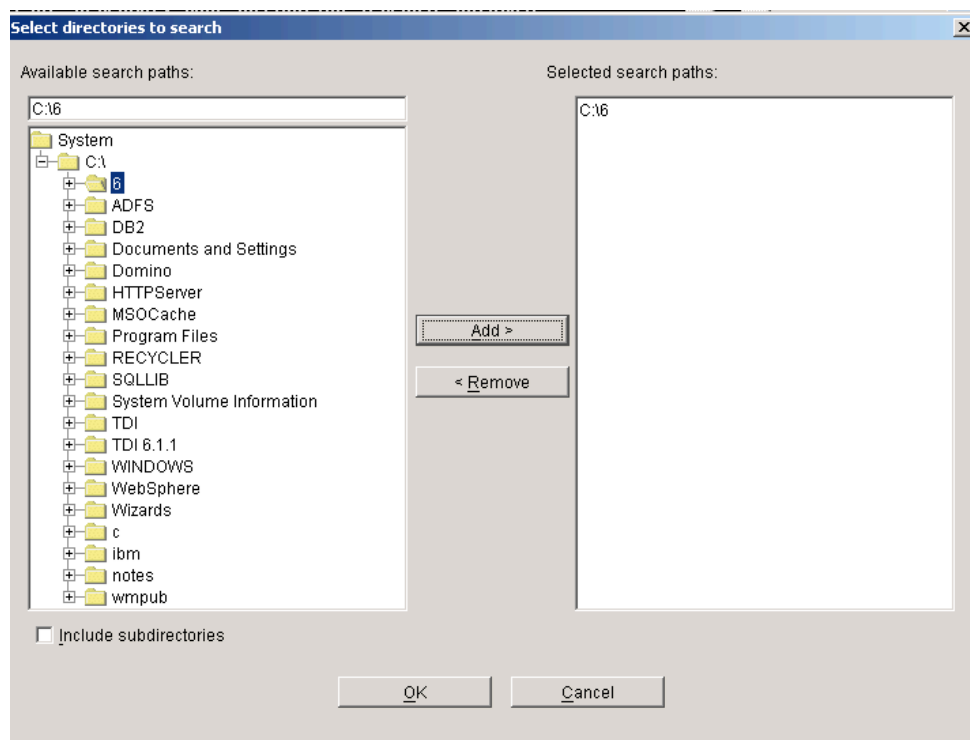


Click Next



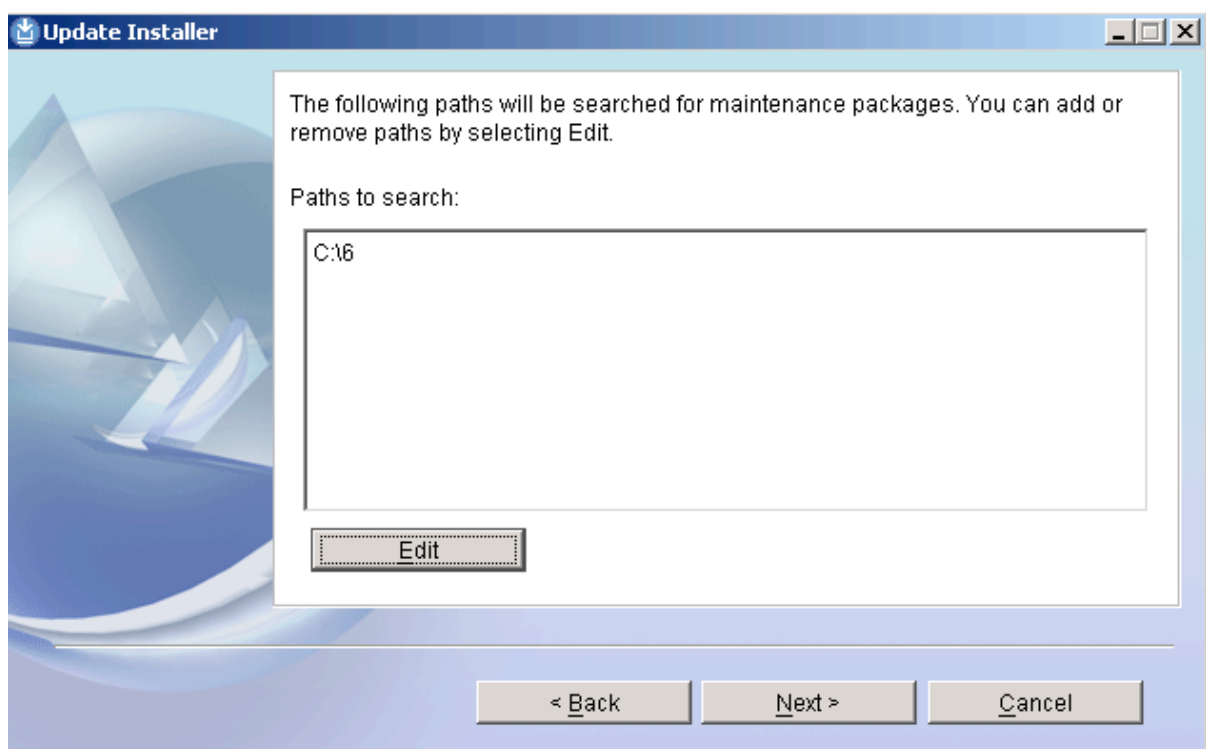
Click Edit

Select the directory where you unzipped the fix pack and click Add



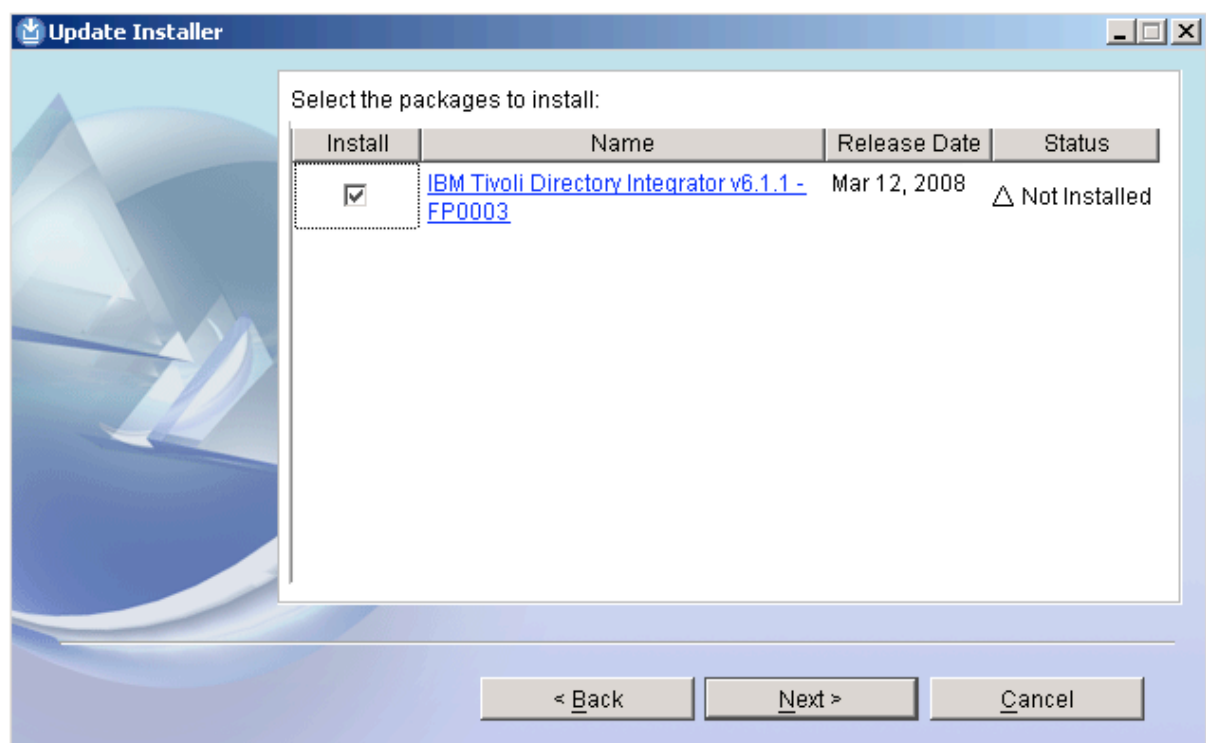
Click OK





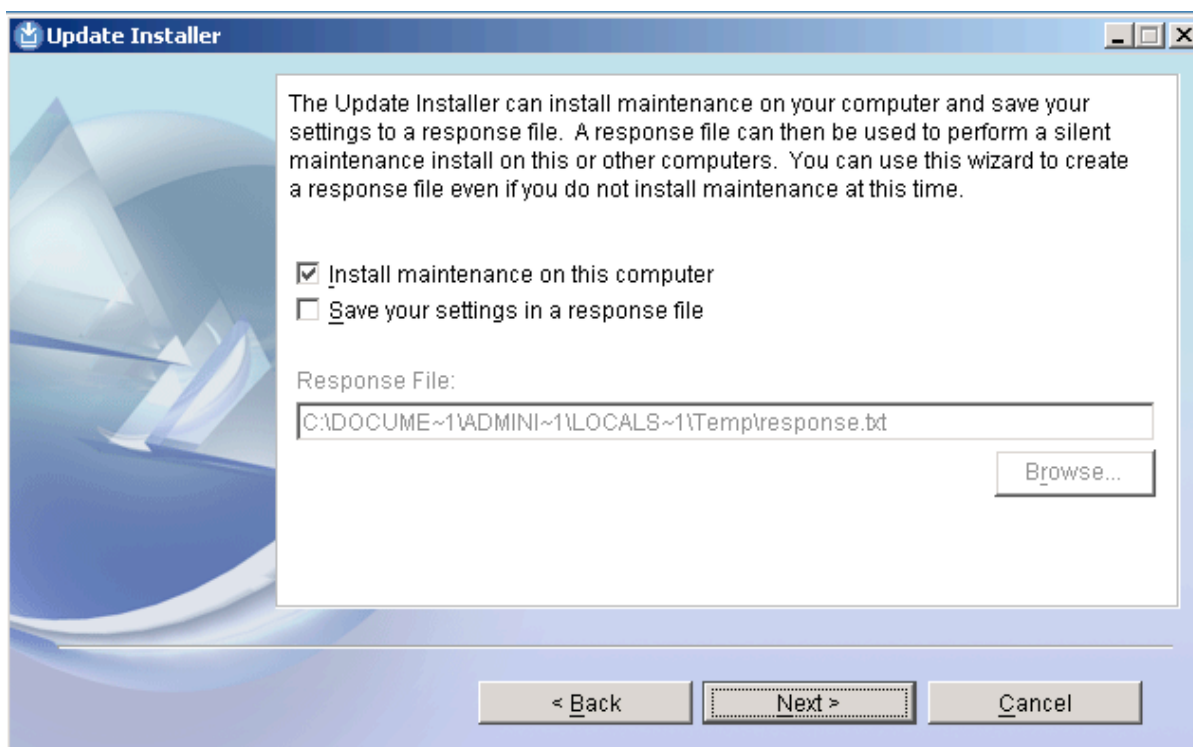
Click Next.

Select the check box next to the fix pack.

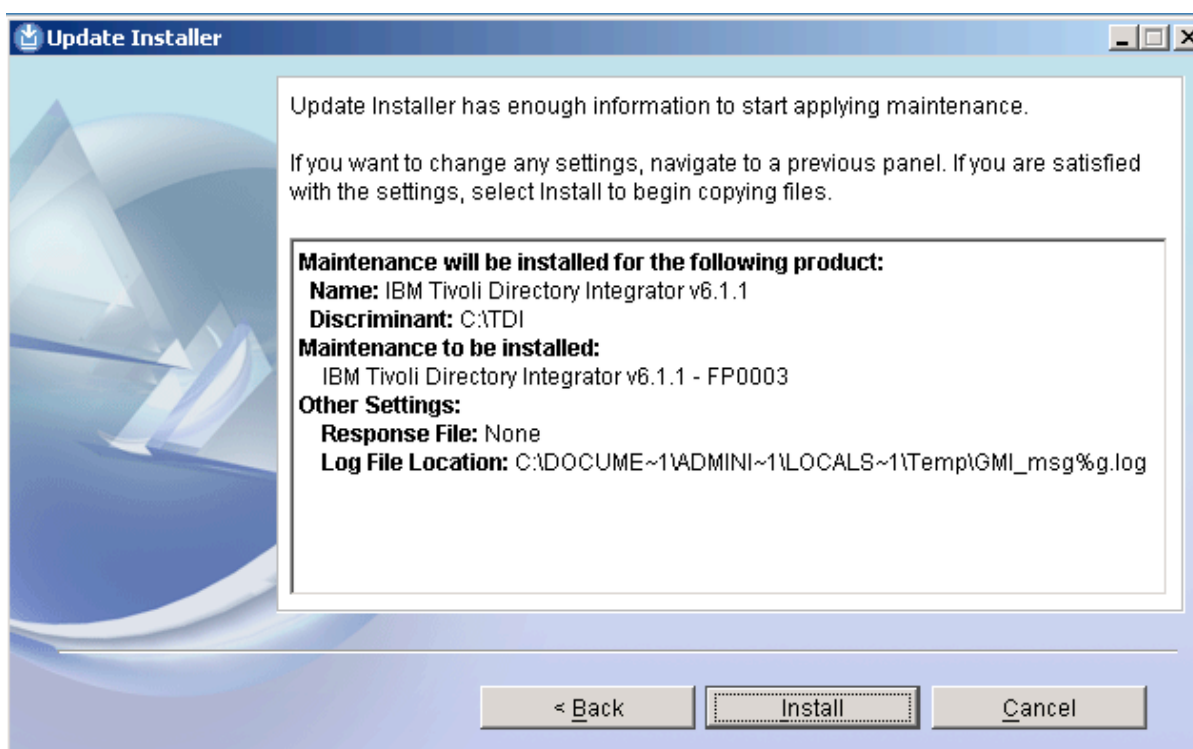


Click Next

Leave the defaults on this screen.



Click Next.



Click Install.

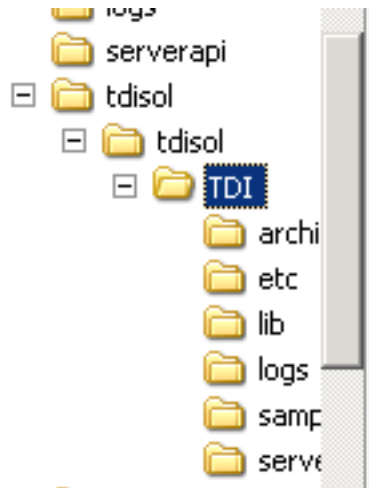
On a successful install click Finish.

Create subdirectory <tdisol/> under <tdiinstall/>

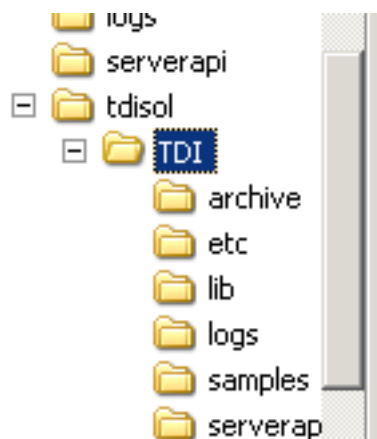
Extract the Lotus\_Connections\_Insat11\TDisol\tdisol.zip from the Lotus Connections install media to <tdisol>.

Ensure that your directory structure looks like <tdisol>\tdi rather than <tdisol>\tdisol\tdi

For example, this is **incorrect**



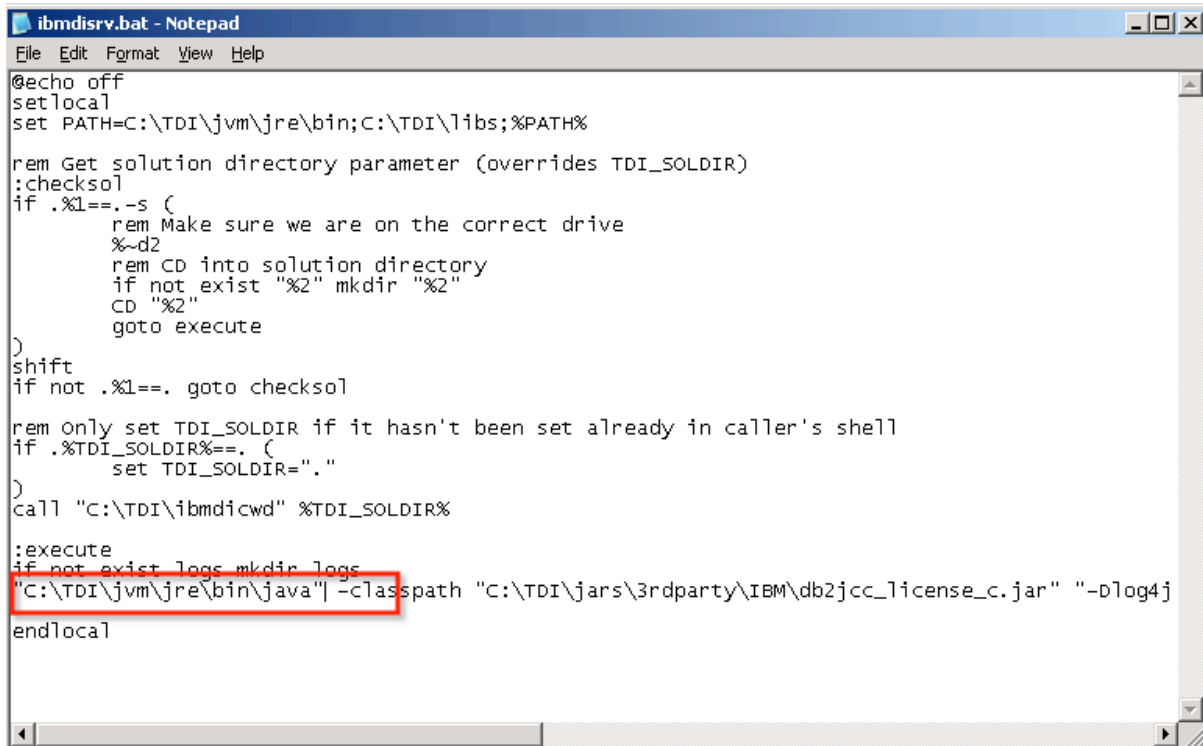
This is **correct**



Copy <db2install>\java\db2jcc\_license\_cu.jar to <tdiinstall>/jvm/jre/lib/ext

Edit <tdiinstall>\ibmdisrv.bat

At the end of the file, locate the command which execute java – eg



```
@echo off
setlocal
set PATH=C:\TDI\jvm\jre\bin;c:\TDI\libs;%PATH%

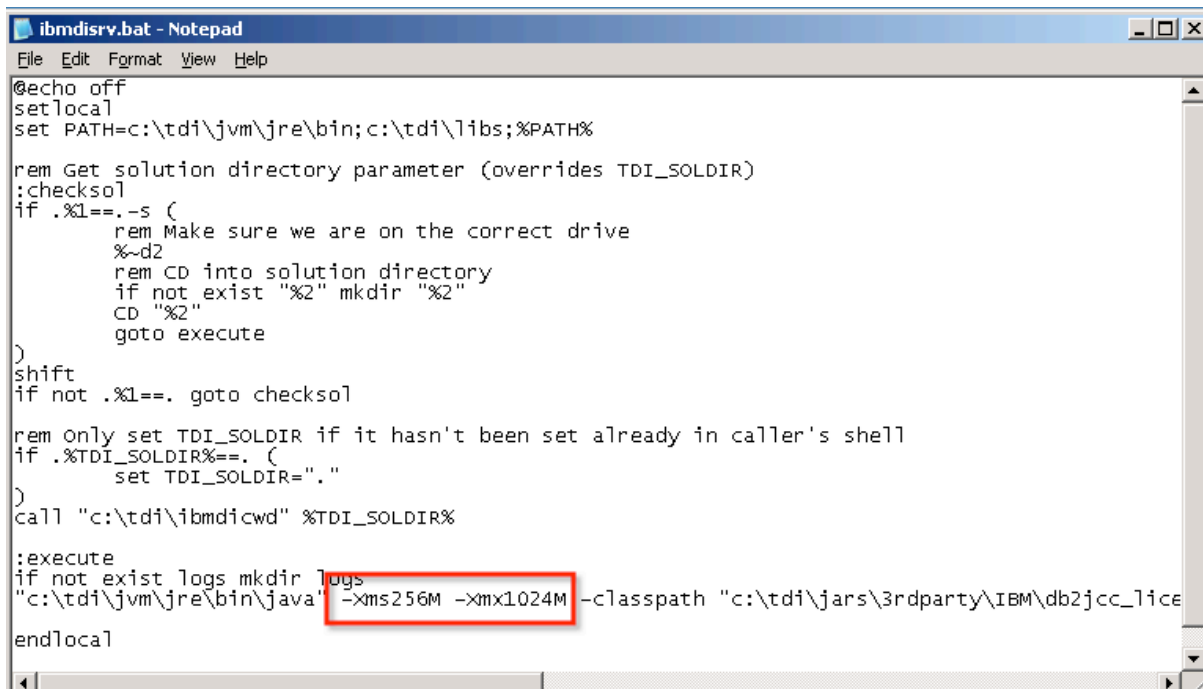
rem Get solution directory parameter (overrides TDI_SOLDIR)
:checksol
if .%1==.-s (
    rem Make sure we are on the correct drive
    %~d2
    rem CD into solution directory
    if not exist "%2" mkdir "%2"
    CD "%2"
    goto execute
)
shift
if not .%1==. goto checksol

rem Only set TDI_SOLDIR if it hasn't been set already in caller's shell
if .%TDI_SOLDIR%==. (
    set TDI_SOLDIR="."
)
call "C:\TDI\ibmdicwd" %TDI_SOLDIR%

:execute
if not exist logs mkdir logs
"C:\TDI\jvm\jre\bin\java" -classpath "C:\TDI\jars\3rdparty\IBM\db2jcc_license_c.jar" "-Dlog4j
endlocal
```

Just before –classpath add –Xms256M –Xmx1024M

The command should now look like



```
@echo off
setlocal
set PATH=c:\tdi\jvm\jre\bin;c:\tdi\libs;%PATH%

rem Get solution directory parameter (overrides TDI_SOLDIR)
:checksol
if .%1==.-s (
    rem Make sure we are on the correct drive
    %~d2
    rem CD into solution directory
    if not exist "%2" mkdir "%2"
    CD "%2"
    goto execute
)
shift
if not .%1==. goto checksol

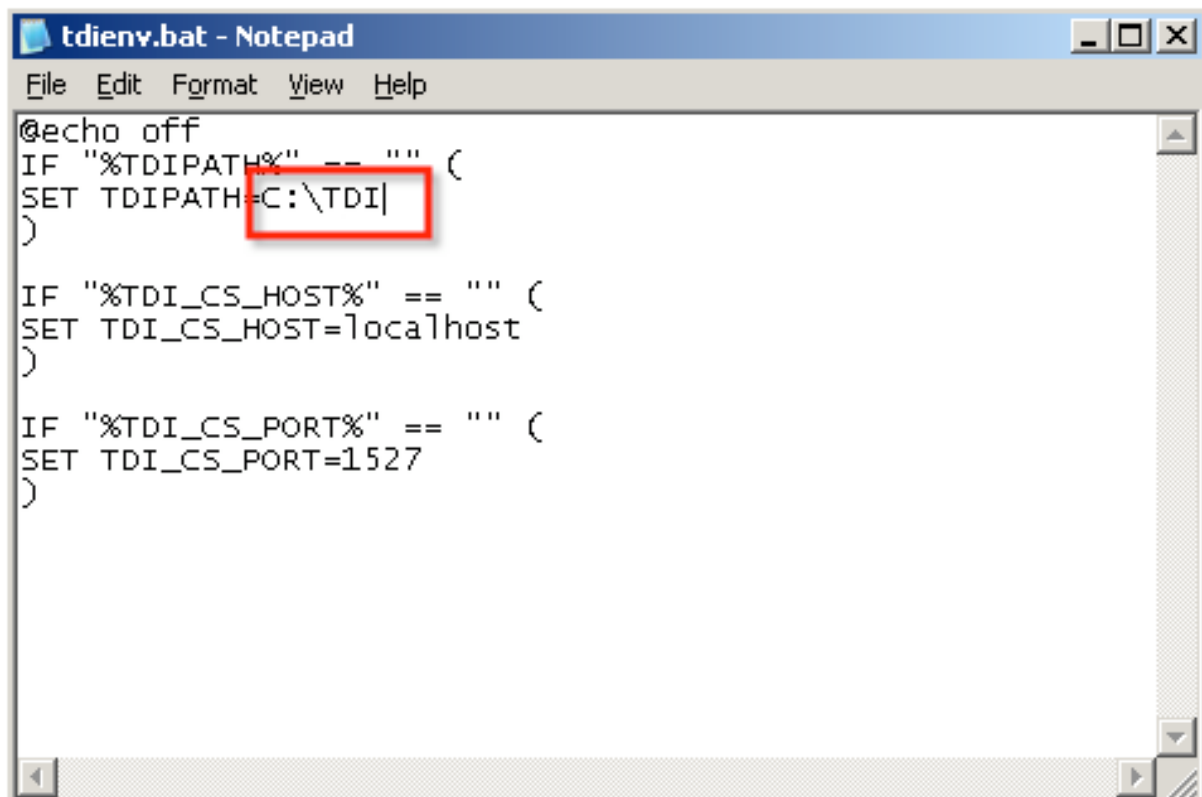
rem Only set TDI_SOLDIR if it hasn't been set already in caller's shell
if .%TDI_SOLDIR%==. (
    set TDI_SOLDIR="."
)
call "c:\tdi\ibmdicwd" %TDI_SOLDIR%

:execute
if not exist logs mkdir logs
"C:\TDI\jvm\jre\bin\java" -Xms256M -Xmx1024M -classpath "c:\tdi\jars\3rdparty\IBM\db2jcc_lice
endlocal
```

Save and close the file.

Edit <tdisol>\TDI\tdienv.bat

Change the TDIPATH variable to <tdiinstall>



```
@echo off
IF "%TDIPATH%" == "" (
SET TDIPATH=C:\\TDI|
)

IF "%TDI_CS_HOST%" == "" (
SET TDI_CS_HOST=localhost
)

IF "%TDI_CS_PORT%" == "" (
SET TDI_CS_PORT=1527
)
```

Save and close the file

Lotus Connections v2 includes a wizard to populate the Profiles database. However, I had problems with this wizard and getting the management information to populate correctly, as well as syncing future changes. Therefore I did this step manually.

Edit <tdisol>\TDI\map\_dbrepos\_from\_source.properties

**For Domino:**

```
set PROF_GUID= dominoUNID
set PROF_UID= {func_map_to_db_UID}
```

**For Active Directory:**

```
set PROF_GUID={function_map_from_objectGUID}
set PROF_UID=sAMAccountName
```

You can also update other fields. For example:  
PROF\_TELEPHONE\_NUMBER=telephoneNumber

Repeat this for other properties you wish to show.

Save and close this file.

**For both Active Directory and Domino:**

Edit <tdisol>\profiles\_tdi.properties

Set the following values

```
source_ldap_url=ldap://<fullyqualifiedname>:389
dbrepos_username=<db2user>
{protect}-dbrepos_password=<db2pwd>
```

**For Domino**

```
source_ldap_user_login=cn=<domadmin>,o=<orgname>
source_ldap_search_base=o=<orgname>
source_ldap_search_filter=( &(uid=*)(objectclass=inetOrgPerson))
```

**For Active Directory:**

```
source_ldap_user_login=cn=<winadminuser>,cn=Users,dc=<domain1>,dc=<domain2>,...
{protect}source_ldap_user_password=<winadminpwd>
source_ldap_search_base=cn=Users,dc=<domain1>,dc=<domain2>,...
source_ldap_search_filter=(objectClass=User)
```

eg:

```
source_ldap_user_login=uid=Administrator,cn=Users,dc=trovus,dc=co,dc=uk
source_ldap_search_base=cn=Users,dc=trovus,dc=co,dc=uk
```

**For both Active Directory and Domino:**

Save and close this file

Change directory to <tdisol>. Run the following commands:

```
collect_dns.bat
populate_from_dn_file.bat (ensure you get a message showing successful import of records)
mark_managers.bat
```

Note that this performs a one-time migration from LDAP to the Profiles database. Updates to a users profile are not propagated to the LDAP or vice versa. To enable this requires complex setup of your LDAP server and should only be performed by an experienced LDAP administrator. See the Lotus Connections InfoCenter for more details.

# Install Lotus Connections

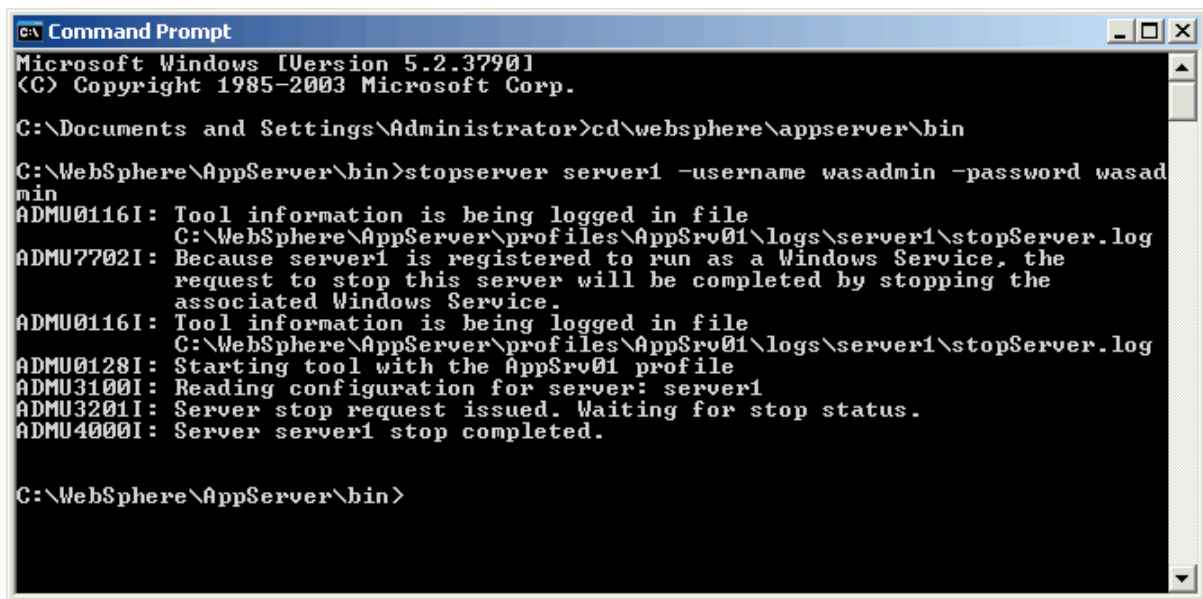
Ensure WebSphere Application Server is stopped

To stop WebSphere, do not use the services panel but rather go to the command line and navigate to

<wasinstall>\bin (eg C:\WebSphere\AppServer\bin) and run

```
stopserver server1 -username <wasadminuser> -password <wasadminpwd>
```

eg stopserver server1 -username wasadmin -password -wasadmin



```
C:\> Command Prompt
Microsoft Windows [Version 5.2.3790]
(C) Copyright 1985-2003 Microsoft Corp.

C:\Documents and Settings\Administrator>cd\websphere\appserver\bin

C:\WebSphere\AppServer\bin>stopserver server1 -username wasadmin -password wasad
min
ADMU0116I: Tool information is being logged in file
           C:\WebSphere\AppServer\profiles\AppSrv01\logs\server1\stopServer.log
ADMU7702I: Because server1 is registered to run as a Windows Service, the
           request to stop this server will be completed by stopping the
           associated Windows Service.
ADMU0116I: Tool information is being logged in file
           C:\WebSphere\AppServer\profiles\AppSrv01\logs\server1\stopServer.log
ADMU0128I: Starting tool with the AppSrv01 profile
ADMU3100I: Reading configuration for server: server1
ADMU3201I: Server stop request issued. Waiting for stop status.
ADMU4000I: Server server1 stop completed.

C:\WebSphere\AppServer\bin>
```

Run Lotus\_Connections\_Install\install.bat from the Lotus Connections installation media.

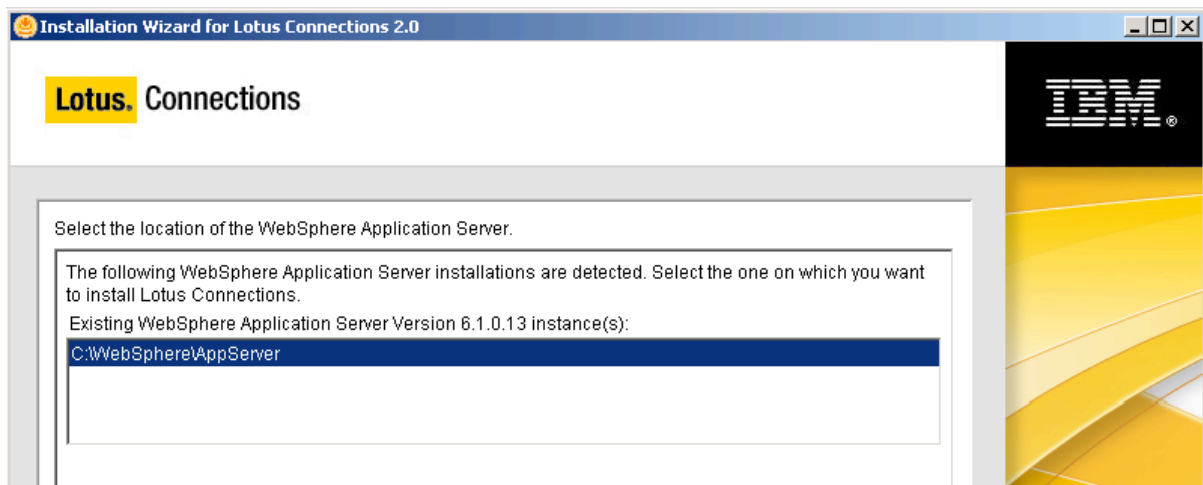
Select English as the language and press OK.

Click Next on the Welcome Screen

Accept the license terms and click Next

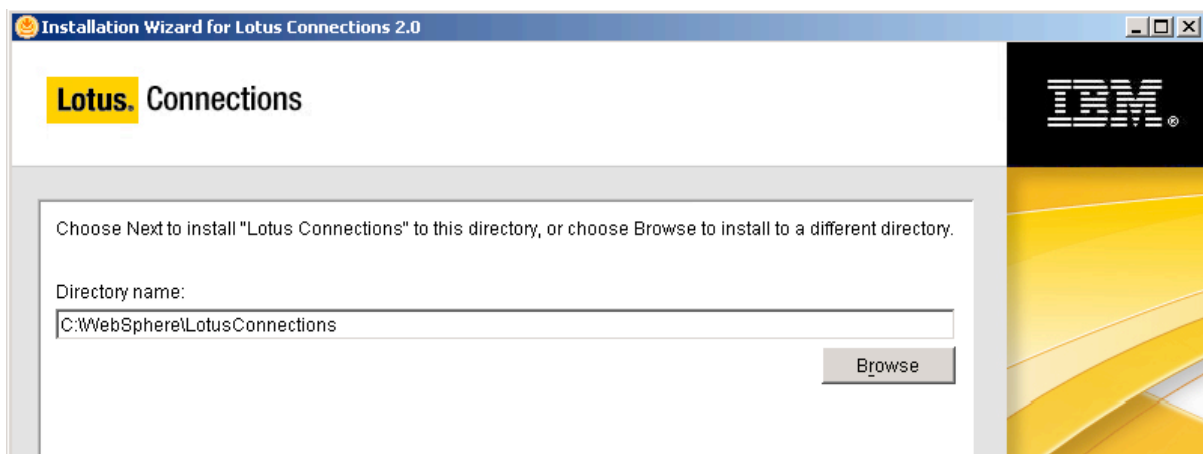
Select Install Lotus Connections only and click Next

Select you instance of WebSphere Application Server



Click Next

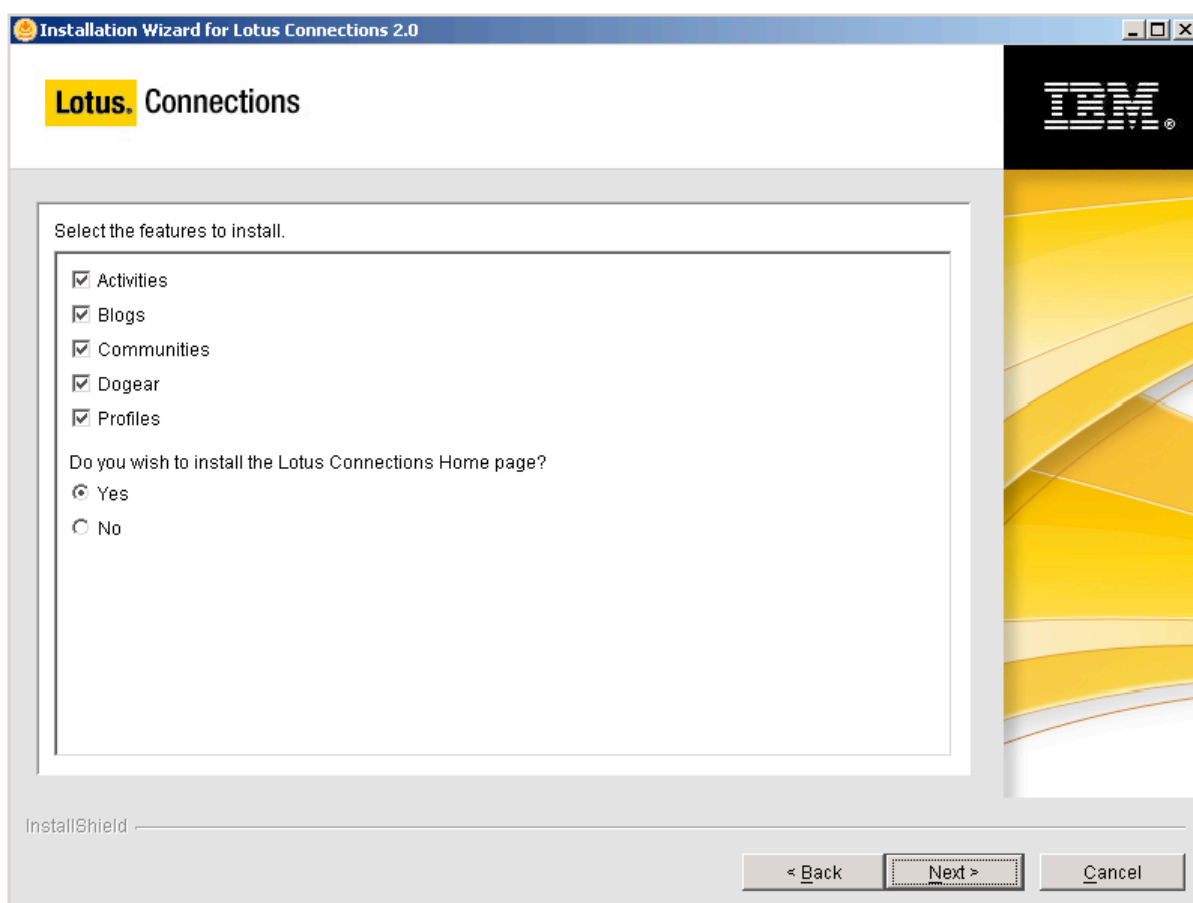
Enter an installation location for Lotus Connections



Click Next

Select the features you wish to install (you must have completed the TDI steps above to install Profiles)





Press Next

Choose Compact, Typical or Custom depending on your desired WebSphere infrastructure.

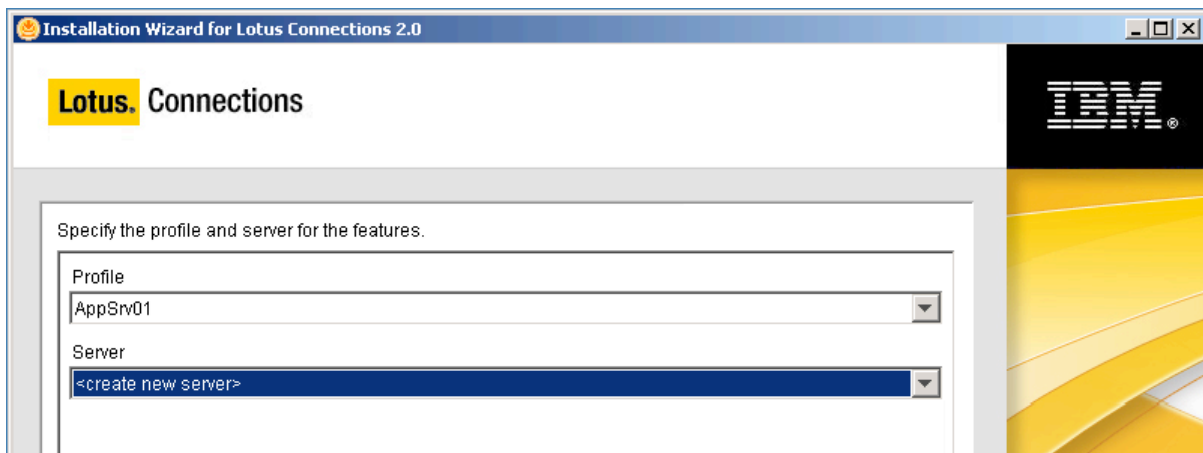
If you select Compact, you simply use the default profile, and choose whether to use the existing server1 or create a new server.

With typical, you choose one Profile, but can create multiple new servers for the different connections features.

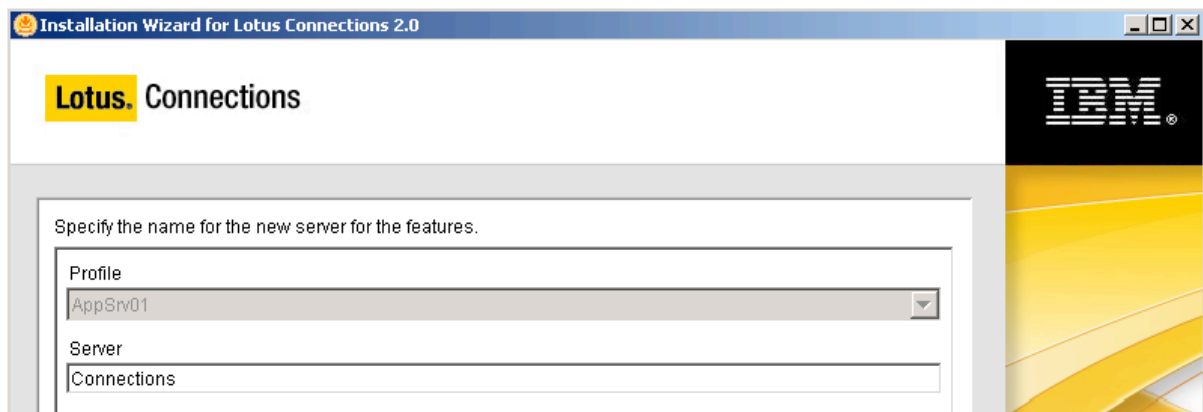
With custom, you can install to different profiles and different servers.

If you know what you are doing, go ahead and map the features to the profiles and servers of your choice. You do not have to create the servers in advance, you can create new ones with this wizard, however if you want to use a profile other than the default (AppSrv01) you **must** have created these Profiles already.

If in doubt – use Compact and select create a new server under Server

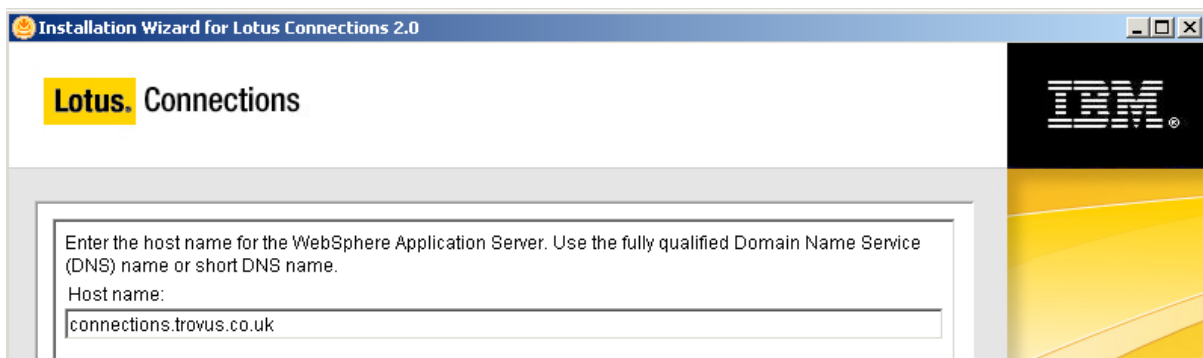


Give this server a name – eg Connections. This is *<connectionsserver>*.



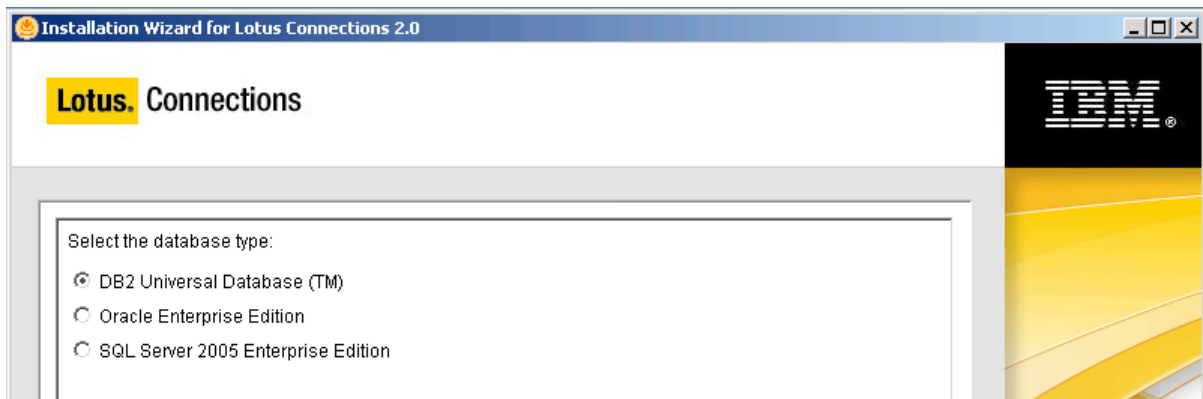
Click Next

Ensure *<fullyqualifiedname>* is entered as the Host name



Click next.

Select DB2 as the database type



Click Next

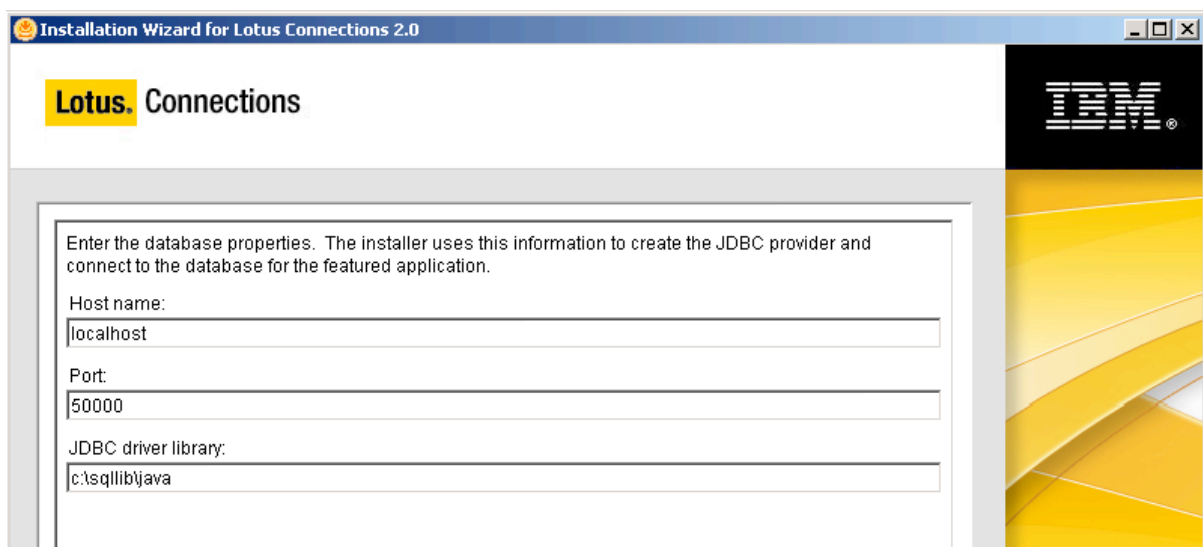
Select all features to use the same database server



Click Next

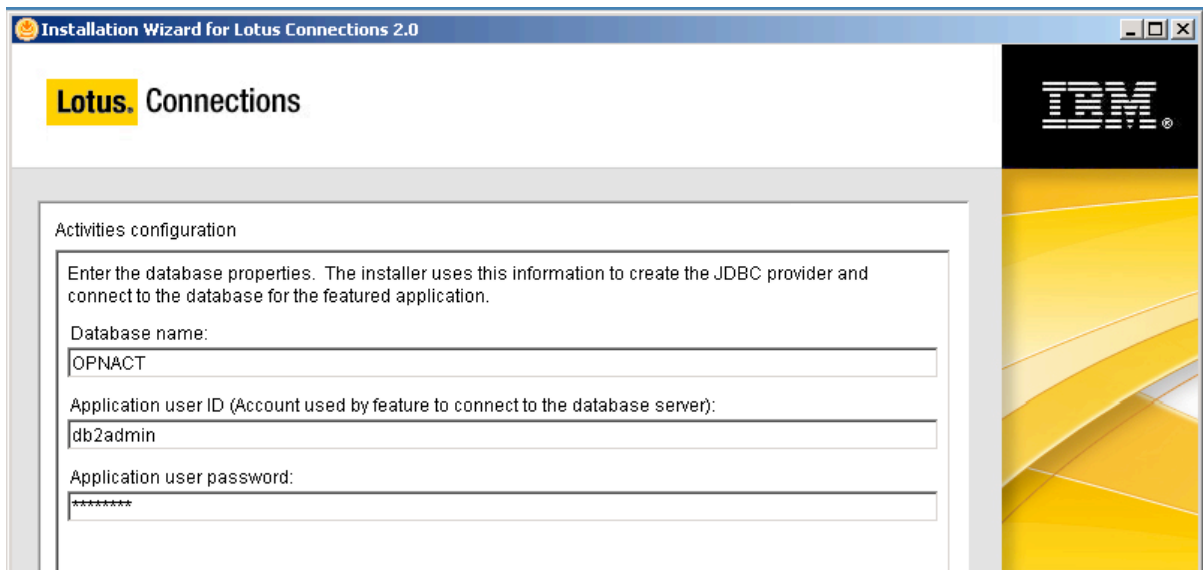
Check Host name is localhost and that the JDBC driver library is <db2install>\java

**Advanced: if installing across multiple machines enter the hostname of the database server, not localhost**



Click Next

On the following database configuration screens enter <db2user> and <db2pwd> for Application user ID and Application user password



Installation Wizard for Lotus Connections 2.0

**Lotus. Connections**

Activities configuration

Enter the database properties. The installer uses this information to create the JDBC provider and connect to the database for the featured application.

Database name:  
OPNACT

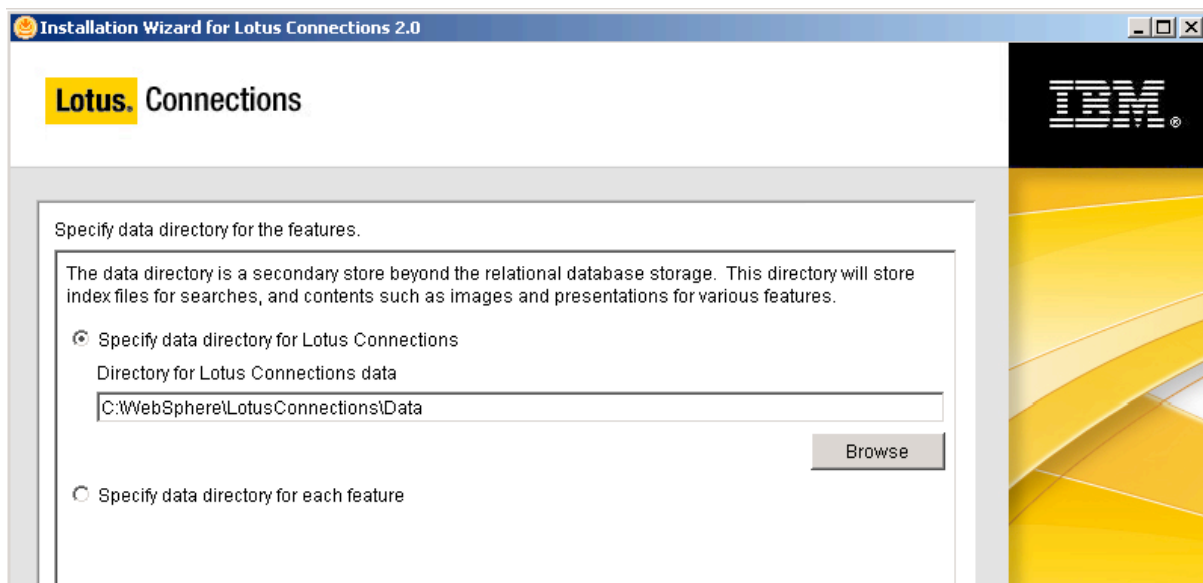
Application user ID (Account used by feature to connect to the database server):  
db2admin

Application user password:  
\*\*\*\*\*

Click Next.

Repeat this for each feature.

You will eventually get to this screen. Leave the default selected to use a single directory for all features



Installation Wizard for Lotus Connections 2.0

**Lotus. Connections**

Specify data directory for the features.

The data directory is a secondary store beyond the relational database storage. This directory will store index files for searches, and contents such as images and presentations for various features.

☒ Specify data directory for Lotus Connections

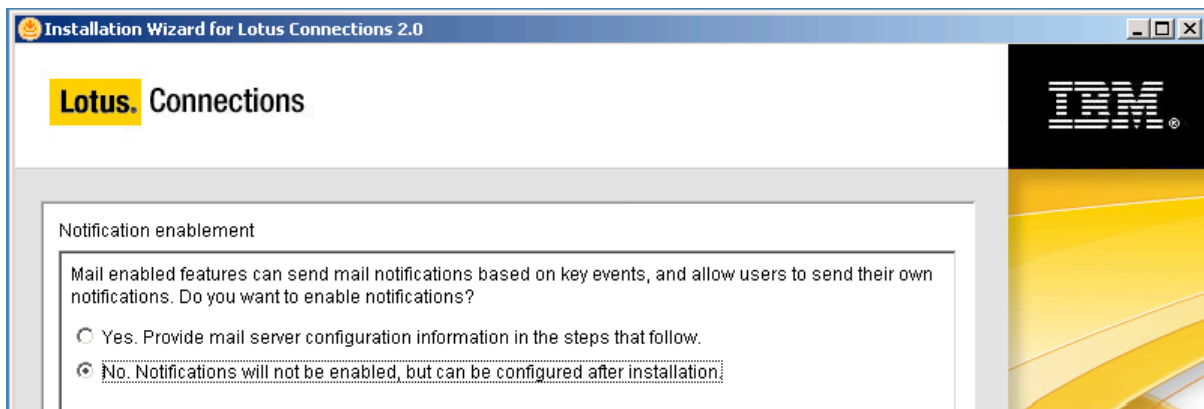
Directory for Lotus Connections data  
C:\WebSphere\LotusConnections\Data

☐ Specify data directory for each feature

Browse

Click Next

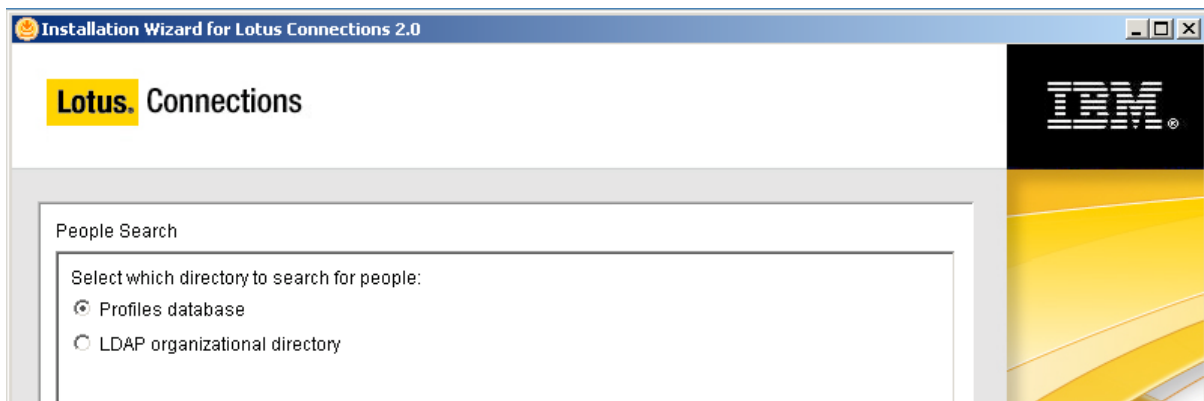
If you have a mail server configured leave Yes selected on this screen. You will then have to enter your mail server configuration. If not press No.



Click Next

If you selected Yes in the previous screen you will now have to enter your mail server information. Consult your mail server administrator for details.

Leave Profiles database selected as the directory to use to search for people



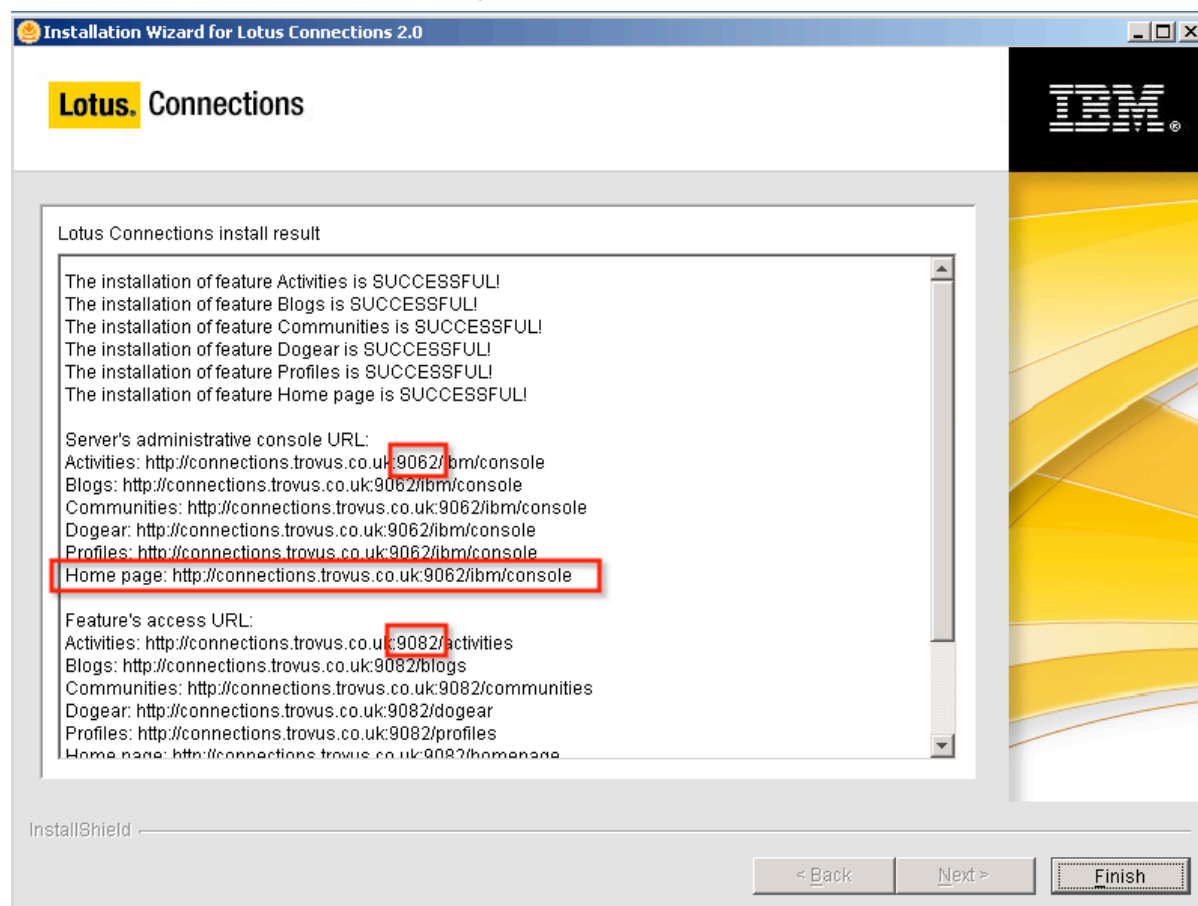
Click Next

Click Next on the summary screen and wait for Connections to install.

After while and all being well you should see a success screen. Note the URLs especially the port numbers. Note each feature may have a different port number if you used different Profiles and/or servers. You will need these port numbers in the Map Virtual Hosts section below.

You will also need the Server administrative console URL from the Home Page. Note this as `<connectionsadmin>`.

The Feature's access URL for the Home page is `<connectionhome>`



Click Finish

# Configure Lotus Connections

## Cache static content

Edit `httpd.conf` in `<httpinstall>\conf`

You can set HTTP Server to cache static content by performing the following.

Search for the line `LoadModule expires_module modules/mod_expires.so`

If it is commented out remove the `#` to uncomment the line.

Add the following to the end of the file:

```
ExpiresActive On
```

```
ExpiresByType application/x-javascript "access plus 1 day"
```

```
ExpiresByType text/css "access plus 1 day"
```

```
ExpiresByType text/plain "access plus 1 day"
```

```
ExpiresByType text/xml "access plus 1 day"
```

```
ExpiresByType image/gif "access plus 1 day"
```

```
ExpiresByType image/jpeg "access plus 1 day"
```

```
ExpiresByType image/png "access plus 1 day"
```

```
ExpiresByType image/bmp "access plus 1 day"
```

```
ExpiresByType image/icon "access plus 1 day"
```

Save and close the file

# Configure applications

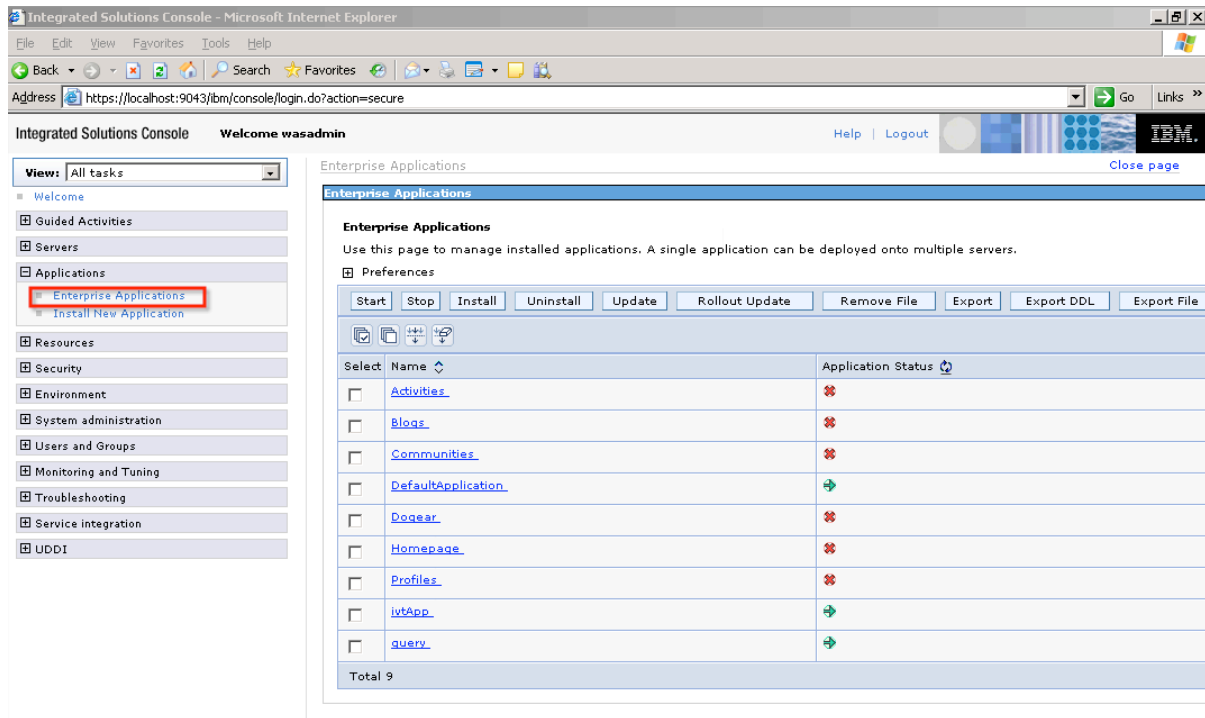
Note that if you installed Connections across multiple profiles you will need to repeat these steps for all Profiles.

From Start -> Control Panel -> Administrative Tools -> Services right click IBM WebSphere Application Server 6.01 <hostname>Node01 and press Start

Once the service has started launch the Administrative Console from the Start menu.

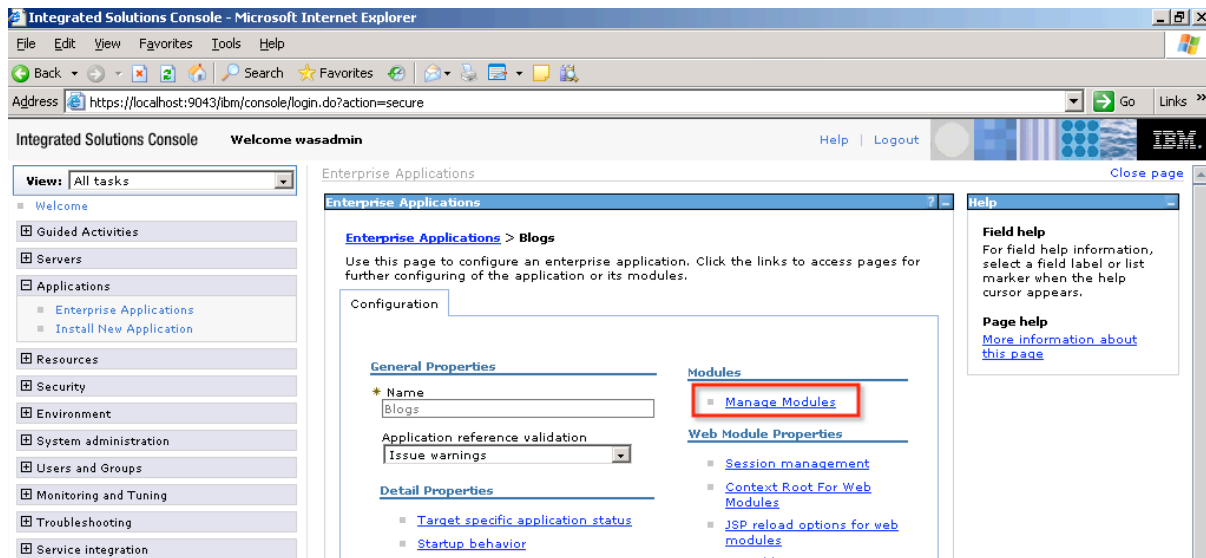
Log in using <wasadminuser> and <wasadminpwd>.

Select Applications -> Enterprise Applications from the left hand side of the Administration console.



Click the Blogs application





Click Manage Modules

Select all the check boxes.

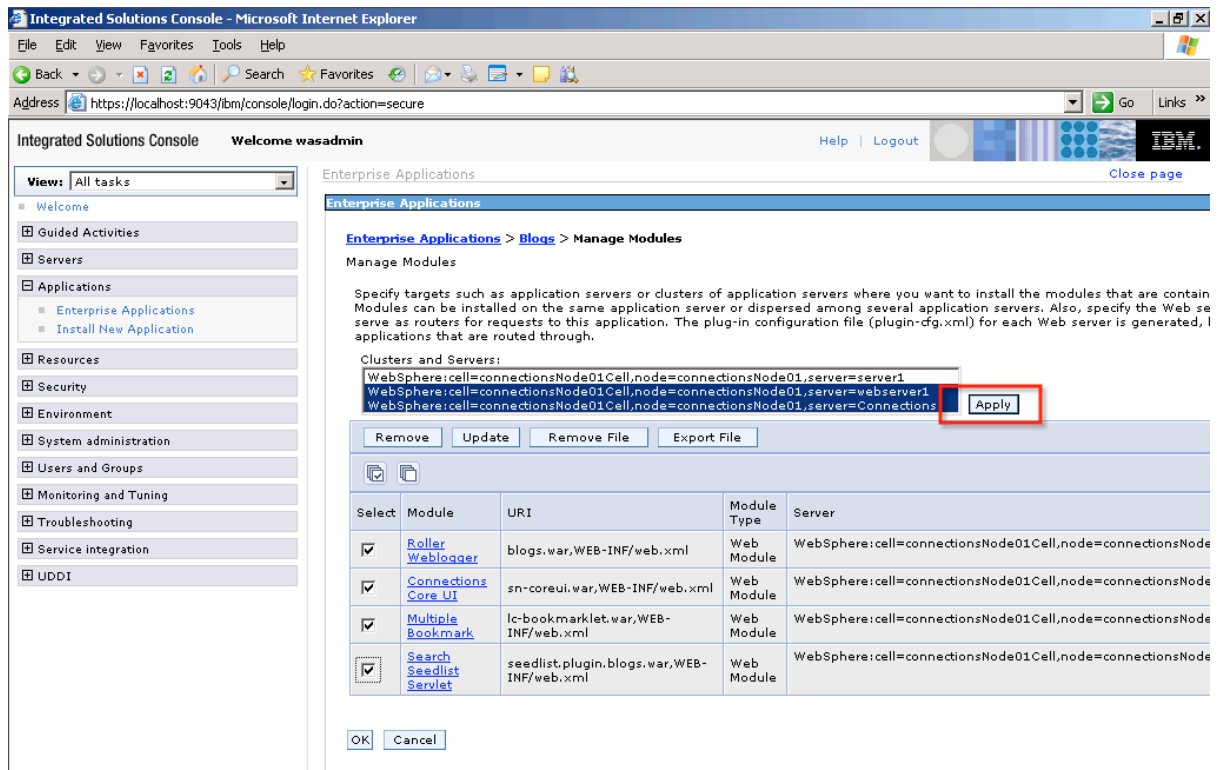
Under Clusters and Servers click webserver1.

if you used the Compact install, hold down Ctrl and select <connectionsserver>.

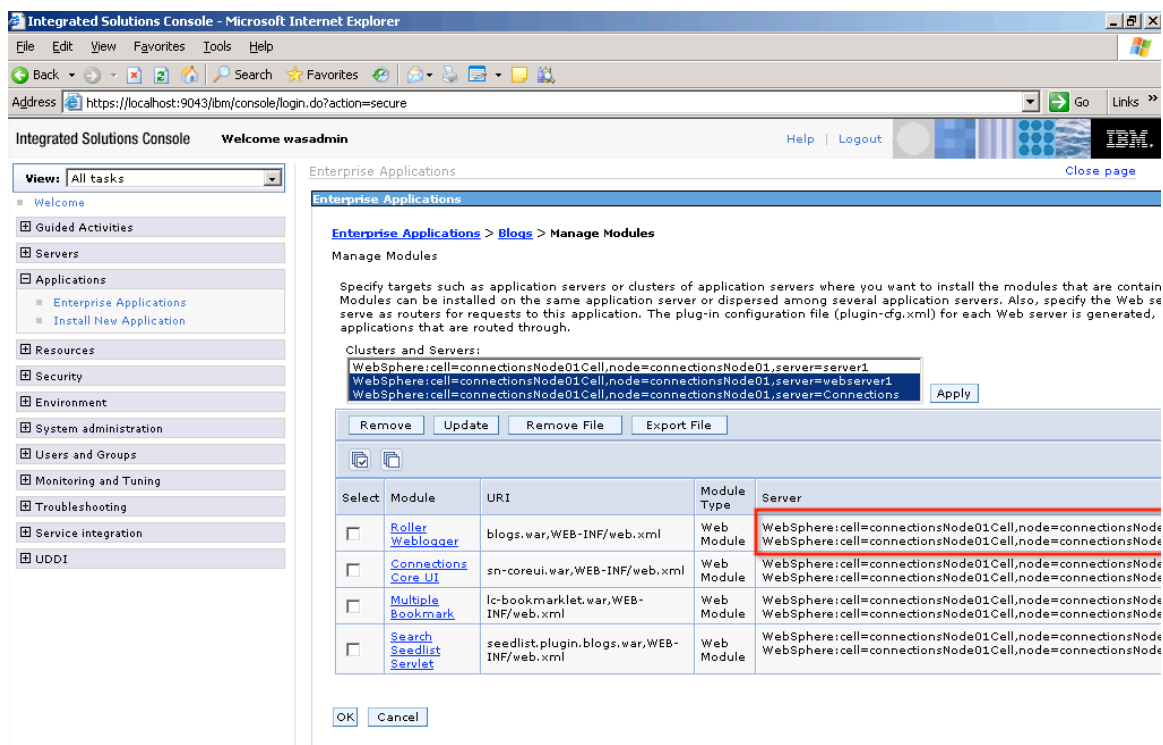
If you used Typical or Custom install, hold down Ctrl and select the server onto which you installed the Blogs feature.

Either way, ensure both the webserver and the application server are selected.

**Note the Infocenter tells you only to select certain modules. I played safe and selected all of them.**



Click Apply (you **must** click Apply before OK).

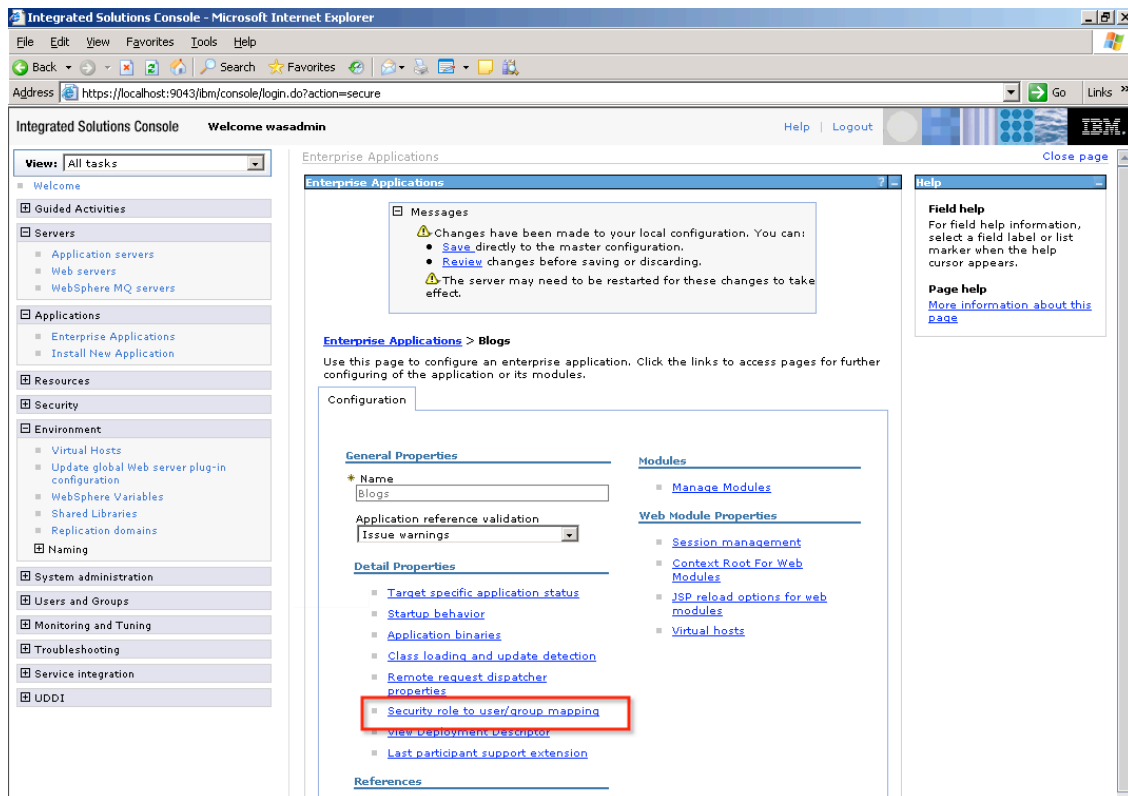


Ensure that both the webserver and the application server appear in the highlighted area.

Press OK

We now need to assign a task id for searching and an administrative ID for some of the features.

Click Security role to user/group mapping.



Click the search-admin check box

The screenshot shows the Integrated Solutions Console interface. On the left is a navigation pane with categories like Guided Activities, Servers, Applications, Resources, Security, Environment, System administration, Users and Groups, Monitoring and Tuning, Troubleshooting, Service integration, and UDDI. The main content area is titled 'Enterprise Applications' and shows a message about configuration changes. Below the message, there's a breadcrumb trail: 'Enterprise Applications > Blogs > Security role to user/group mapping'. The current page is 'Security role to user/group mapping'. It explains that roles must map to a user or group from the domain user registry. There are two buttons: 'Look up users' (highlighted with a red box) and 'Look up groups'. Below these buttons is a table with columns: Select, Role, Everyone?, All authenticated?, Mapped users, and Mapped groups. The table lists roles: person, everyone, admin, search-admin (with its 'Select' checkbox highlighted by a red box), and reader. At the bottom are 'OK' and 'Cancel' buttons.

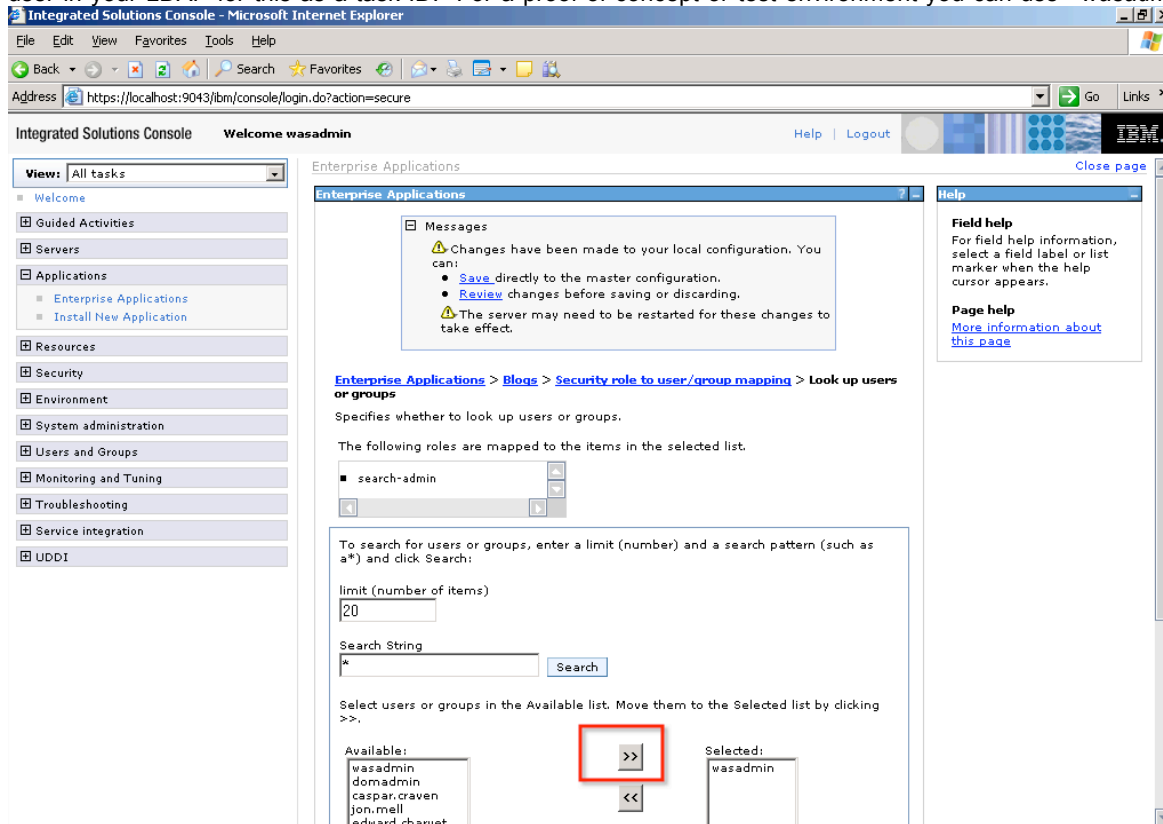
Select	Role	Everyone?	All authenticated?	Mapped users	Mapped groups
<input type="checkbox"/>	person	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
<input type="checkbox"/>	everyone	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
<input type="checkbox"/>	admin	<input type="checkbox"/>	<input type="checkbox"/>		
<input checked="" type="checkbox"/>	search-admin	<input type="checkbox"/>	<input type="checkbox"/>		
<input type="checkbox"/>	reader	<input checked="" type="checkbox"/>	<input type="checkbox"/>		

Click Look up users

The screenshot shows the 'Look up users or groups' dialog box. It has a breadcrumb trail: 'Enterprise Applications > Blogs > Security role to user/group mapping > Look up users or groups'. It explains that it specifies whether to look up users or groups. Below this, it says 'The following roles are mapped to the items in the selected list.' and shows a list with 'search-admin'. There's a section for searching: 'To search for users or groups, enter a limit (number) and a search pattern (such as a\*) and click Search:'. It has a 'limit (number of items)' field with '20' entered, a 'Search String' field with '\*' entered, and a 'Search' button (highlighted with a red box). At the bottom, it says 'Select users or groups in the Available list. Move them to the Selected list by clicking'.

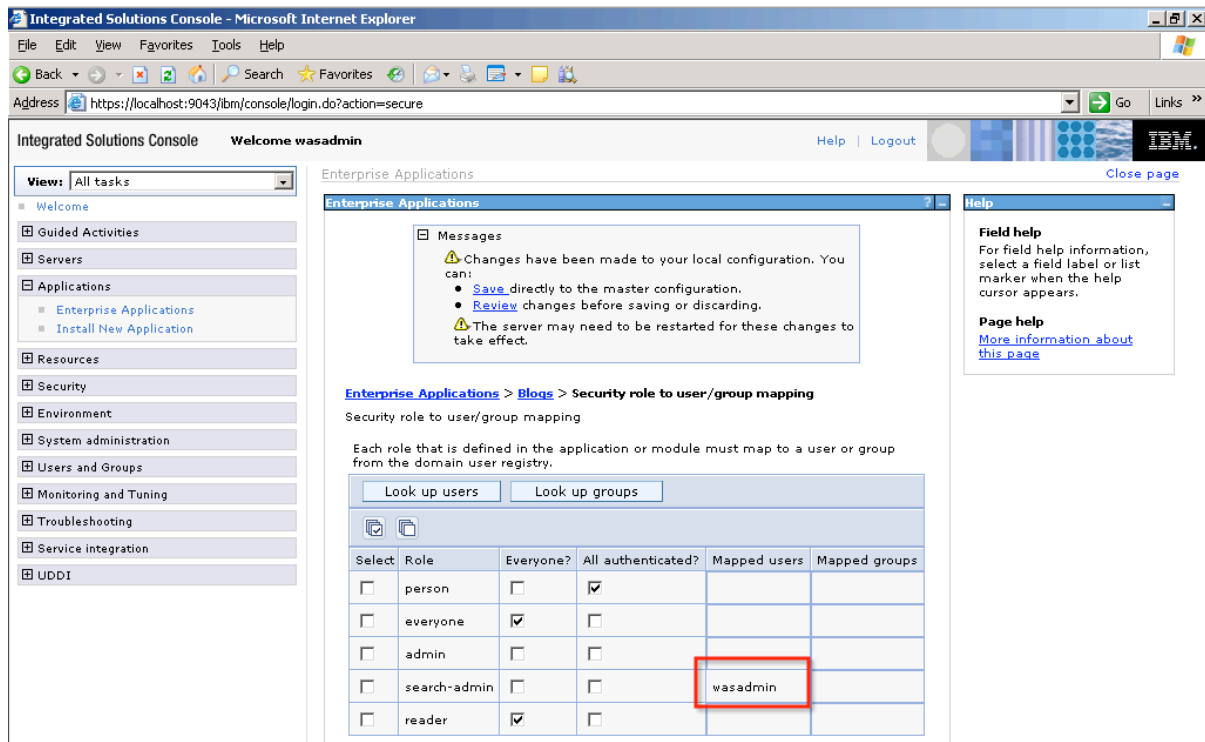
Click Search

Select a user to be used as the search administrator. In a production environment you should have a defined user in your LDAP for this as a task ID. For a proof of concept or test environment you can use `<wasadmin>`.



Click OK

Check the user has been added to the Mapped Users column



Select the admin check box

The screenshot shows the Integrated Solutions Console interface. On the left is a navigation pane with categories like Welcome, Guided Activities, Servers, Applications, Resources, Security, Environment, System administration, Users and Groups, Monitoring and Tuning, Troubleshooting, Service integration, and UDDI. The main content area is titled 'Enterprise Applications' and shows a message about configuration changes. Below this, the breadcrumb path is 'Enterprise Applications > Blogs > Security role to user/group mapping'. The page title is 'Security role to user/group mapping'. A note states: 'Each role that is defined in the application or module must map to a user or group from the domain user registry.' There are two buttons: 'Look up users' (highlighted with a red box) and 'Look up groups'. Below these is a table with columns: Select, Role, Everyone?, All authenticated?, Mapped users, and Mapped groups. The 'admin' role is selected in the 'Select' column (highlighted with a red box). The 'search-admin' role is mapped to the 'wasadmin' user. At the bottom are 'OK' and 'Cancel' buttons.

Select	Role	Everyone?	All authenticated?	Mapped users	Mapped groups
<input type="checkbox"/>	person	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
<input type="checkbox"/>	everyone	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
<input checked="" type="checkbox"/>	admin	<input type="checkbox"/>	<input type="checkbox"/>		
<input type="checkbox"/>	search-admin	<input type="checkbox"/>	<input type="checkbox"/>	wasadmin	
<input type="checkbox"/>	reader	<input checked="" type="checkbox"/>	<input type="checkbox"/>		

Click Look up users

Select a real person who will perform administrative tasks, and not a task ID as per search-admin

Integrated Solutions Console - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Search Favorites Go Links

Address <https://localhost:9043/ibm/console/login.do?action=secure>

Integrated Solutions Console Welcome wasadmin Help Logout

View: All tasks

Enterprise Applications

Enterprise Applications

Messages

Changes have been made to your local configuration. You can:

- Save directly to the master configuration.
- Review changes before saving or discarding.

The server may need to be restarted for these changes to take effect.

Enterprise Applications > Blogs > Security role to user/group mapping > Look up users or groups

Specifies whether to look up users or groups.

The following roles are mapped to the items in the selected list.

admin

To search for users or groups, enter a limit (number) and a search pattern (such as a\*) and click Search:

limit (number of items)  
20

Search String  
\* Search

Select users or groups in the Available list. Move them to the Selected list by clicking >>.

Available: wasadmin, domadmin, caspar.craven, jon.mell, edward.charvet

Selected: jon.mell

Field help  
For field help information, select a field label or list marker when the help cursor appears.

Page help  
More information about this page

Click OK

Check both the task id has been mapped to search-admin, and the administrative user has been mapped to admin

The screenshot shows the 'Enterprise Applications' section in the Integrated Solutions Console. A message box indicates that changes have been made to the local configuration. Below this, the 'Enterprise Applications > Blogs > Security role to user/group mapping' page is displayed. It explains that each role must map to a user or group from the domain user registry. A table shows the mapping for the 'search-admin' role:

Select	Role	Everyone?	All authenticated?	Mapped users	Mapped groups
<input type="checkbox"/>	person	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
<input type="checkbox"/>	everyone	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
<input type="checkbox"/>	admin	<input type="checkbox"/>	<input type="checkbox"/>	jon.mell	
<input type="checkbox"/>	search-admin	<input type="checkbox"/>	<input type="checkbox"/>	wasadmin	
<input type="checkbox"/>	reader	<input checked="" type="checkbox"/>	<input type="checkbox"/>		

The 'Mapped users' column for 'search-admin' is highlighted with a red box, showing 'jon.mell' and 'wasadmin'. Below the table are 'OK' and 'Cancel' buttons.

Click OK

The screenshot shows the 'Enterprise Applications' section in the Integrated Solutions Console. A message box indicates that changes have been made to the local configuration. Below this, the 'Enterprise Applications > Blogs' page is displayed. It explains that this page is used to configure an enterprise application. A 'Configuration' section is visible with tabs for 'General Properties' and 'Modules'. The 'Save' button in the message box is highlighted with a red box.

Click Save

Repeat the Manage Modules and Security role to user/group mapping steps for

- Activities (search-admin role only),
- Communities, (search-admin and admin roles)
- Dogear, (search-admin role only)
- Homepage (admin role only)
- Profiles (search-admin and admin roles)

When on the Manage Modules screen ensure that all check boxes are selected and both the webserver and the application server are selected under Clusters and Servers.

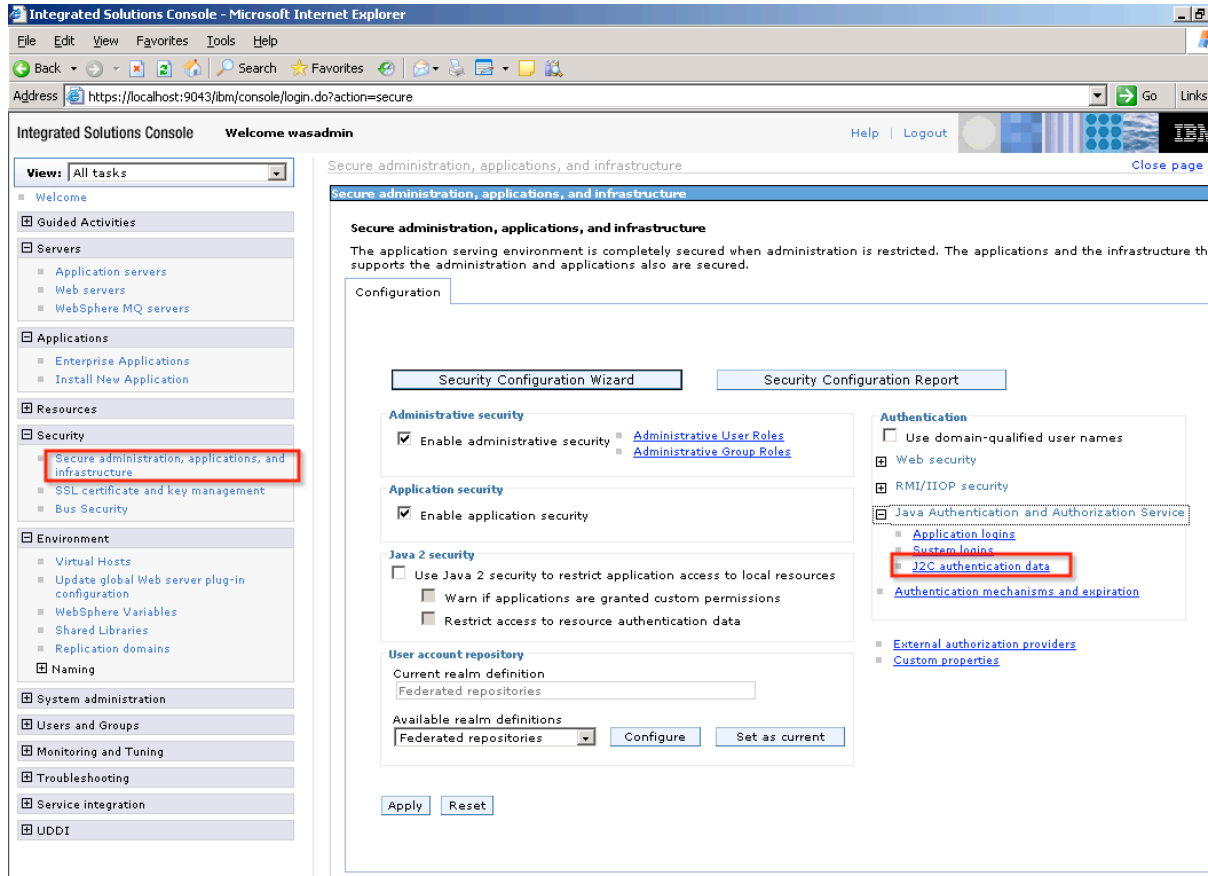
Ensure you press Apply before OK and that the webserver and the application server are listed under the 'Server' column for each module.

Ensure that you click Save at the end of the process.



# Configure Search

Click Security, then Secure administration, applications and infrastructure on the left hand side.



Click Java Authentication and Authorization Service on the right hand side and then J2C authentication data.

Integrated Solutions Console - Microsoft Internet Explorer

Address: https://localhost:9043/ibm/console/login.do?action=secure

Integrated Solutions Console Welcome wasadmin

Secure administration, applications, and infrastructure

Secure administration, applications, and infrastructure > JAAS - J2C authentication data

Specifies a list of user identities and passwords for Java(TM) 2 connector security to use.

Preferences

Select	Alias	User ID	Description
<input type="checkbox"/>	activitiesJAASAuth	db2admin	JAAS Alias for DataSource activities
<input type="checkbox"/>	blogsJAASAuth	db2admin	JAAS Alias for DataSource blogs
<input type="checkbox"/>	communitiesJAASAuth	db2admin	JAAS Alias for DataSource communities
<input type="checkbox"/>	dogearJAASAuth	db2admin	JAAS Alias for DataSource dogear
<input type="checkbox"/>	dominoAdmin	activities	JAAS Alias for Domino server access for Activities
<input type="checkbox"/>	homepageJAASAuth	db2admin	JAAS Alias for DataSource homepage
<input type="checkbox"/>	profilesJAASAuth	db2admin	JAAS Alias for DataSource profiles
<input type="checkbox"/>	searchActivitiesAlias	searchActivitiesAliasUser	JAAS Alias for Homepage Activities search
<input type="checkbox"/>	searchBlogsAlias	searchBlogsAliasUser	JAAS Alias for Homepage Blogs search
<input type="checkbox"/>	searchCommunitiesAlias	searchCommunitiesAliasUser	JAAS Alias for Homepage Communities search
<input type="checkbox"/>	searchDogearAlias	searchDogearAliasUser	JAAS Alias for Homepage Dogear search
<input type="checkbox"/>	searchProfilesAlias	searchProfilesAliasUser	JAAS Alias for Homepage Profiles search
<input type="checkbox"/>	smtpAdmin	db2admin	JAAS Alias for SMTP server access for Activities

Total 13

Click searchActivitiesAlias.

Change the UserID to the user you mapped to the search-admin role for Activities (eg <wasadmin>)

Enter the password for this user

Integrated Solutions Console - Microsoft Internet Explorer

Address: https://localhost:9043/ibm/console/login.do?action=secure

Integrated Solutions Console Welcome wasadmin

Secure administration, applications, and infrastructure

Secure administration, applications, and infrastructure > JAAS - J2C authentication data > searchActivitiesAlias

Specifies a list of user identities and passwords for Java(TM) 2 connector security to use.

Configuration

General Properties

Alias: searchActivitiesAlias

User ID: searchActivitiesAliasUser

Password: \*\*\*\*\*

Description: JAAS Alias for Homepage Act

Apply OK Reset Cancel

Click OK.

Repeat the process for searchBlogsAlias, searchCommunitiesAlias, searchDogearAlias and searchProfilesAlias. Note there is no alias for the home page as it is not searchable.

When you are finished the JAAS – J2C authentication data screen should look something like this

**Integrated Solutions Console - Microsoft Internet Explorer**

Address: <https://localhost:9043/lbm/console/login.do?action=secure>

Welcome wasadmin

**View:** All tasks

**Left Navigation:**

- Welcome
- Guided Activities
- Servers
  - Application servers
  - Web servers
  - WebSphere MQ servers
- Applications
  - Enterprise Applications
  - Install New Application
- Resources
- Security
  - Secure administration, applications, and infrastructure
  - SSL certificate and key management
  - Bus Security
- Environment
  - Virtual Hosts
  - Update global Web server plug-in configuration
  - WebSphere Variables
  - Shared Libraries
  - Replication domains
- Naming
- System administration
- Users and Groups
- Monitoring and Tuning
- Troubleshooting
- Service integration
- UDDI

**Main Content:**

**Secure administration, applications, and infrastructure > JAAS - J2C authentication data**

Specifies a list of user identities and passwords for Java(TM) 2 connector security to use.

**Preferences**

**Table:**

Select	Alias	User ID	Description
<input type="checkbox"/>	<a href="#">activitiesJAASAuth</a>	db2admin	JAAS Alias for DataSource activities
<input type="checkbox"/>	<a href="#">blogsJAASAuth</a>	db2admin	JAAS Alias for DataSource blogs
<input type="checkbox"/>	<a href="#">communitiesJAASAuth</a>	db2admin	JAAS Alias for DataSource communities
<input type="checkbox"/>	<a href="#">dogearJAASAuth</a>	db2admin	JAAS Alias for DataSource dogear
<input type="checkbox"/>	<a href="#">dominoAdmin</a>	activities	JAAS Alias for Domino server access for Activities
<input type="checkbox"/>	<a href="#">homepageJAASAuth</a>	db2admin	JAAS Alias for DataSource homepage
<input type="checkbox"/>	<a href="#">profilesJAASAuth</a>	db2admin	JAAS Alias for DataSource profiles
<input type="checkbox"/>	<a href="#">searchActivitiesAlias</a>	wasadmin	JAAS Alias for Homepage Activities search
<input type="checkbox"/>	<a href="#">searchBlogsAlias</a>	wasadmin	JAAS Alias for Homepage Blogs search
<input type="checkbox"/>	<a href="#">searchCommunitiesAlias</a>	wasadmin	JAAS Alias for Homepage Communities search
<input type="checkbox"/>	<a href="#">searchDogearAlias</a>	wasadmin	JAAS Alias for Homepage Dogear search
<input type="checkbox"/>	<a href="#">searchProfilesAlias</a>	wasadmin	JAAS Alias for Homepage Profiles search
<input type="checkbox"/>	<a href="#">smtpAdmin</a>	db2admin	JAAS Alias for SMTP server access for Activities

Total 13

**Right Panel:**

**Help**

**Field help**  
For field help information, select a field label or list marker when the help cursor appears.

**Page help**  
[More information about this page](#)

Click Save.

## Install SchedulerCalendars

From the command line and navigate to

<wasinstall>\profiles\AppSrv01\bin (eg C:\WebSphere\AppServer\profiles\AppSrv01\bin) and run wsadmin

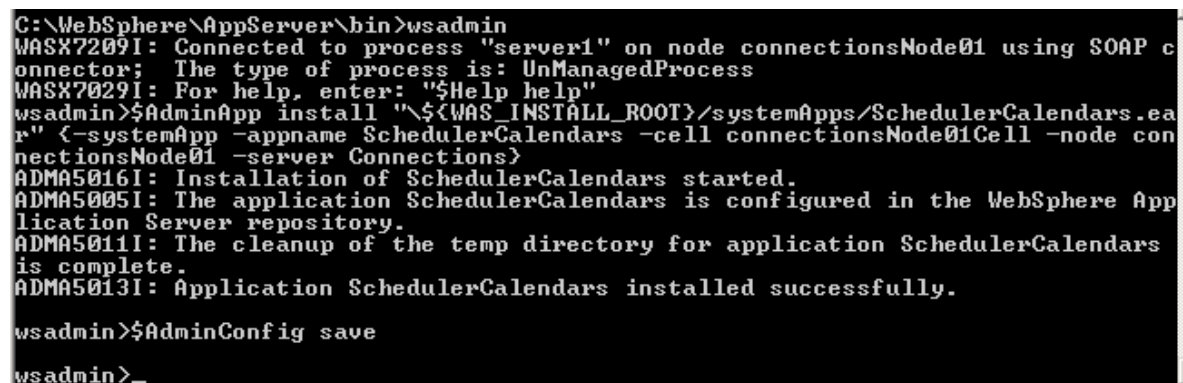
**Do not** run this command from <wasinstall>\bin

If asked to log in use <wasadmin>

Run the following command (one single command with no line breaks). Note this command, including <ConnectionsServer> is case sensitive. If you used the Typical or Custom install method then <ConnectionsServer> needs to be the server where you installed the Home page feature.

```
$AdminApp install "\${WAS_INSTALL_ROOT}/systemApps/SchedulerCalendars.ear" {-  
systemApp -appname SchedulerCalendars -cell <hostname>Node01Cell -node  
<hostname>Node01 -server <ConnectionsServer>}
```

Then type \$AdminConfig save



```
C:\WebSphere\AppServer\bin>wsadmin  
WASX7209I: Connected to process "server1" on node connectionsNode01 using SOAP c  
onnecter; The type of process is: UnManagedProcess  
WASX7029I: For help, enter: "$Help help"  
wsadmin>$AdminApp install "\${WAS_INSTALL_ROOT}/systemApps/SchedulerCalendars.ear" {-systemApp -appname SchedulerCalendars -cell connectionsNode01Cell -node connectionsNode01 -server Connections}  
ADMA5016I: Installation of SchedulerCalendars started.  
ADMA5005I: The application SchedulerCalendars is configured in the WebSphere Application Server repository.  
ADMA5011I: The cleanup of the temp directory for application SchedulerCalendars is complete.  
ADMA5013I: Application SchedulerCalendars installed successfully.  
  
wsadmin>$AdminConfig save  
wsadmin>
```

Type quit

## Create index schedule

Run `wsadmin -lang jython`

Note all commands here are case sensitive

Type

```
execfile('homepageAdmin.py')
```

```
wsadmin>execfile('homepageAdmin.py')
No Homepage services found
HomePage Configuration Environment initialized
```

Type

```
HomepageCellConfig.checkoutConfig('c:/', '<hostname>Node01Cell')
```

```
wsadmin>HomepageCellConfig.checkOutConfig('c:/', 'connectionsNode01Cell')
Homepage Cell level configuration file successfully checked out
wsadmin>
```

You will now set the time to run the indexing service for search. You can index different features at different times. For example, Activities which changes frequently can be set to be indexed every few hours whereas Profiles might be done overnight.

You need to use the CRON format to set the time.

Type:

```
HomepageCellConfig.addTask("<taskname>", "<start time in CRON format>", "<start by time in cron format>", "<features to search>")
```

Where

<taskname> is an arbitrary string defining this task – eg `DailyAt1am`

<start time in CRON format> is the start time – eg Monday to Friday at 1am would be `"0 0 1 ? * MON-FRI"`

<start by time in CRON format> is the time when the task should be cancelled if it has not started. This prevents tasks from queuing up. For example, this string would cancel the index if it hadn't started by 1:10am `"0 10 1 ? * MON-FRI"`

<features> is a comma separated list of features for the task to search, eg `"activities, blogs"`

For example, this adds a task to index all features at 1am Monday-Friday

```
HomepageCellConfig.addTask("dailyAt1am", "0 0 1 ? * MON-FRI", "0 10 1 ? * MON-FRI", "activities,blogs,communities,dogear,profiles")
```

```
wsadmin>HomepageCellConfig.addTask("dailyAt1am", "0 0 1 ? * MON-FRI", "0 10 1 ? * MON-FRI", "activities,blogs,communities,dogear,profiles")
Loading schema file for validation: /c://homepage-config.xsd
c://homepage-config_CHANGED.xml is valid
wsadmin>
```

As another example, this task will index all features every 5 minutes (not recommended for a high volume production system!)

```
HomepageCellConfig.addTask("every5minutes", "0 5/5 0-23 ? * MON-FRI", "0 11/5 0-23 ? * MON-FRI", "activities,blogs,communities,dogear,profiles")
```

Google CRON if you need any help with the format!

Type HomepageCellConfig.checkInConfig()

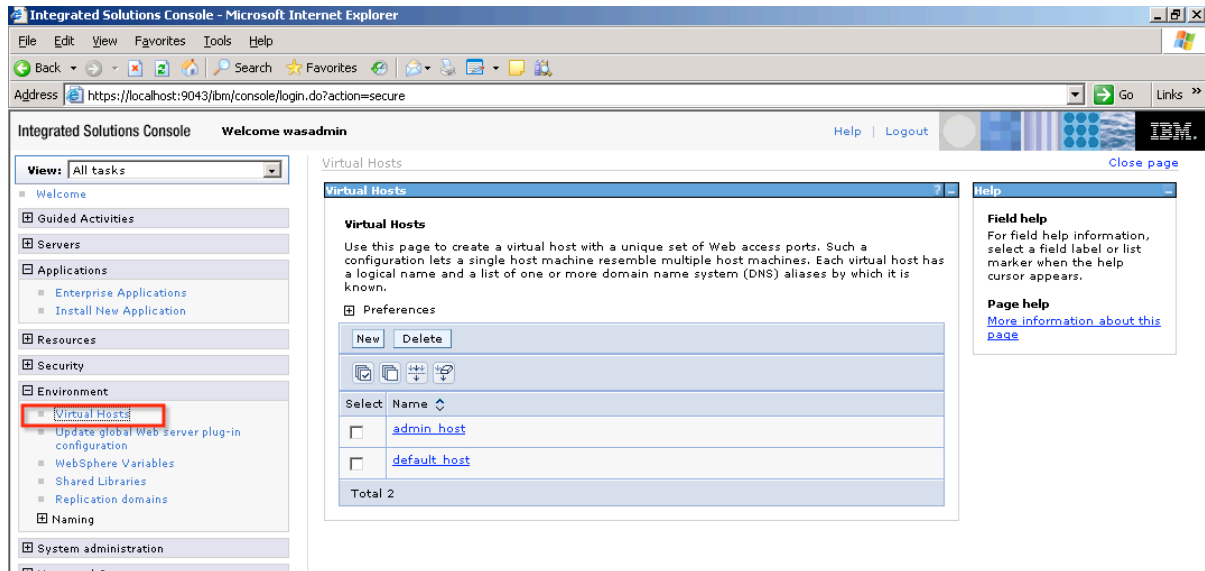
```
wsadmin>HomepageCellConfig.checkInConfig<>
Using configuration arguments :
    workingDirectory: c:/
    cellName: connectionsNode01Cell
    nodeName: None
    serverName: None
Loading schema file for validation: /c://homepage-config.xsd
c://homepage-config.xml is valid
Homepage cell level configuration file successfully checked in
wsadmin>
```

Type quit. Note that search will not work until this task has run for the first time.

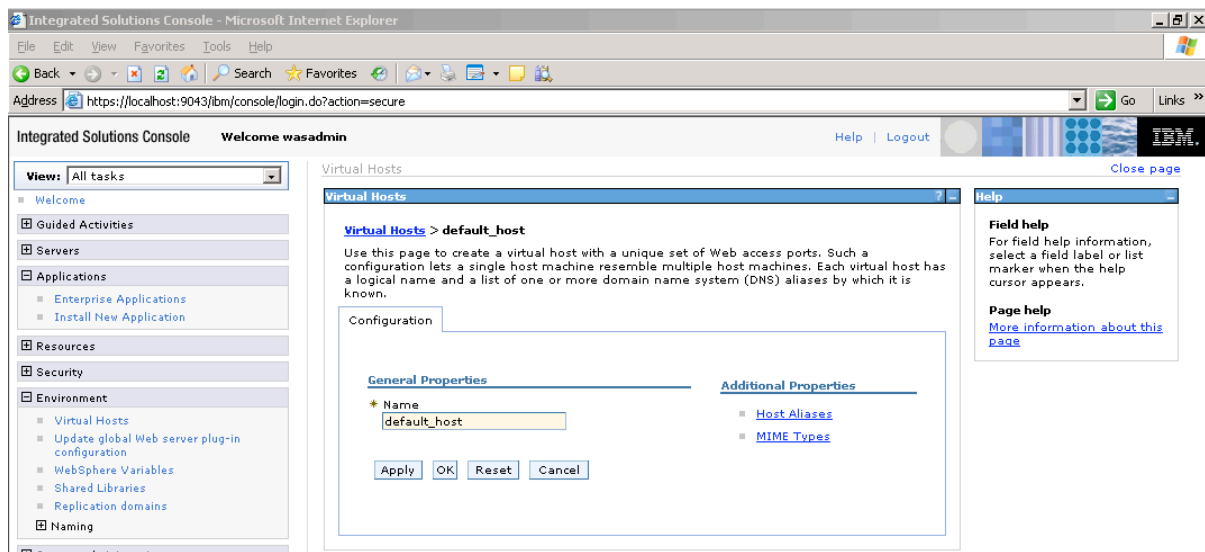
# Map virtual hosts

This step is only required if you used a Typical install and created multiple WebSphere servers on a single profile.

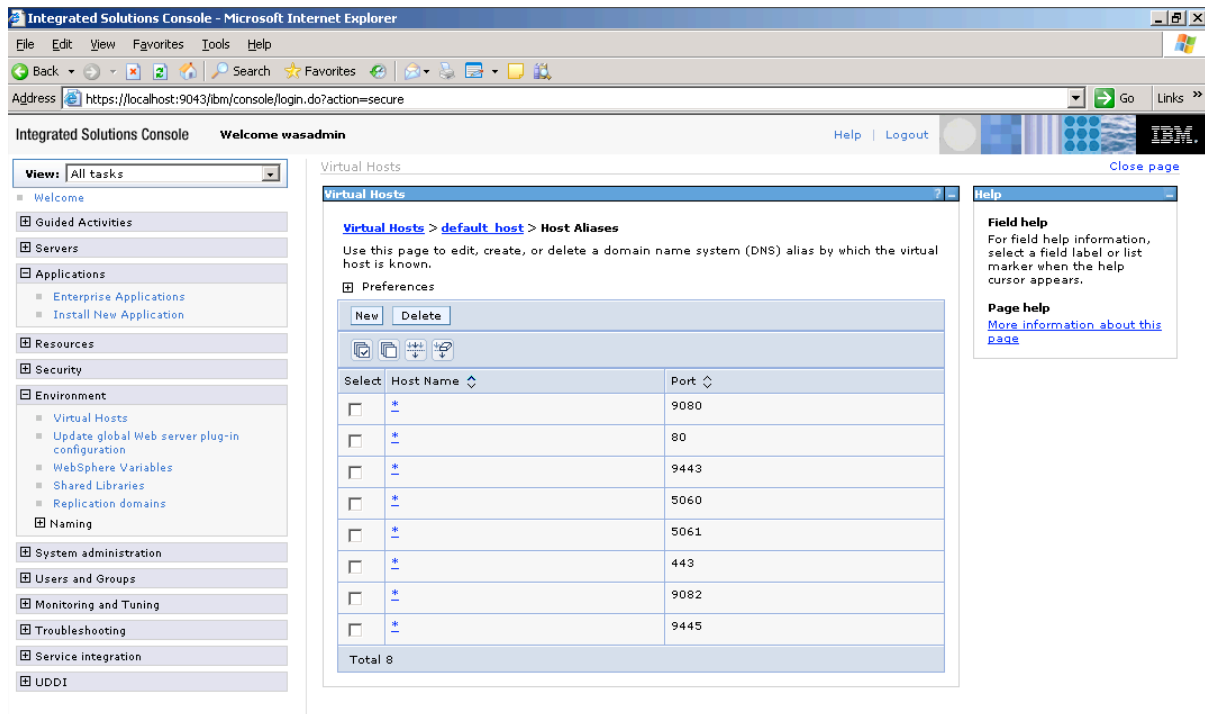
Click Environment -> Virtual Hosts on the left hand side



Click default\_host



## Click Host Aliases



Integrated Solutions Console - Microsoft Internet Explorer

Address: <https://localhost:9043/lbm/console/login.do?action=secure>

Integrated Solutions Console Welcome wasadmin Help Logout

View: All tasks

- Welcome
- Guided Activities
- Servers
- Applications
  - Enterprise Applications
  - Install New Application
- Resources
- Security
- Environment
  - Virtual Hosts
  - Update global Web server plug-in configuration
  - WebSphere Variables
  - Shared Libraries
  - Replication domains
- Naming
- System administration
- Users and Groups
- Monitoring and Tuning
- Troubleshooting
- Service Integration
- UDDI

Virtual Hosts

Virtual Hosts > default\_host > Host Aliases

Use this page to edit, create, or delete a domain name system (DNS) alias by which the virtual host is known.

Preferences

New Delete

Select	Host Name	Port
<input type="checkbox"/>	*	9080
<input type="checkbox"/>	*	80
<input type="checkbox"/>	*	9443
<input type="checkbox"/>	*	5060
<input type="checkbox"/>	*	5061
<input type="checkbox"/>	*	443
<input type="checkbox"/>	*	9082
<input type="checkbox"/>	*	9445

Total 8

Field help  
For field help information, select a field label or list marker when the help cursor appears.

Page help  
[More information about this page](#)

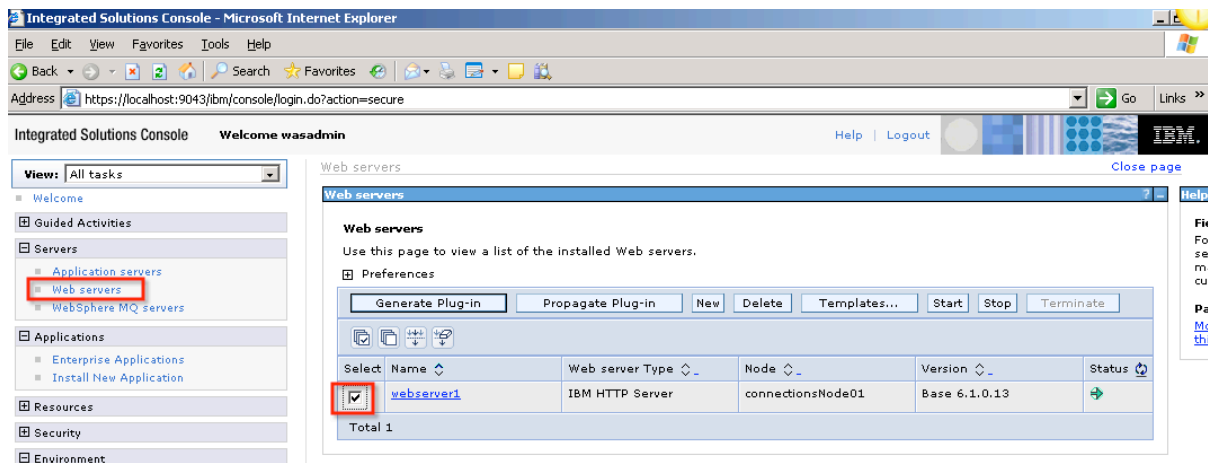
For each Lotus Connections feature (Profiles, Dogear, Blogs, Activities, Communities, Homepage) click new.

The Host name is the feature name (eg Activities). The port is the port shown in the Feature access URL shown at the end of the Connections installation.

If you chose a Compact install these port numbers will all be the same and this step will not be necessary.

## Generate Plugin

Click Servers -> Web Servers on the left hand side. Select the webserver1 check box



Integrated Solutions Console - Microsoft Internet Explorer

Address: <https://localhost:9043/lbm/console/login.do?action=secure>

Integrated Solutions Console Welcome wasadmin Help Logout

View: All tasks

- Welcome
- Guided Activities
- Servers
  - Application servers
  - Web servers
  - WebSphere MQ servers
- Applications
  - Enterprise Applications
  - Install New Application
- Resources
- Security
- Environment

Web 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	Version	Status
<input checked="" type="checkbox"/>	webserver1	IBM HTTP Server	connectionsNode01	Base 6.1.0.13	

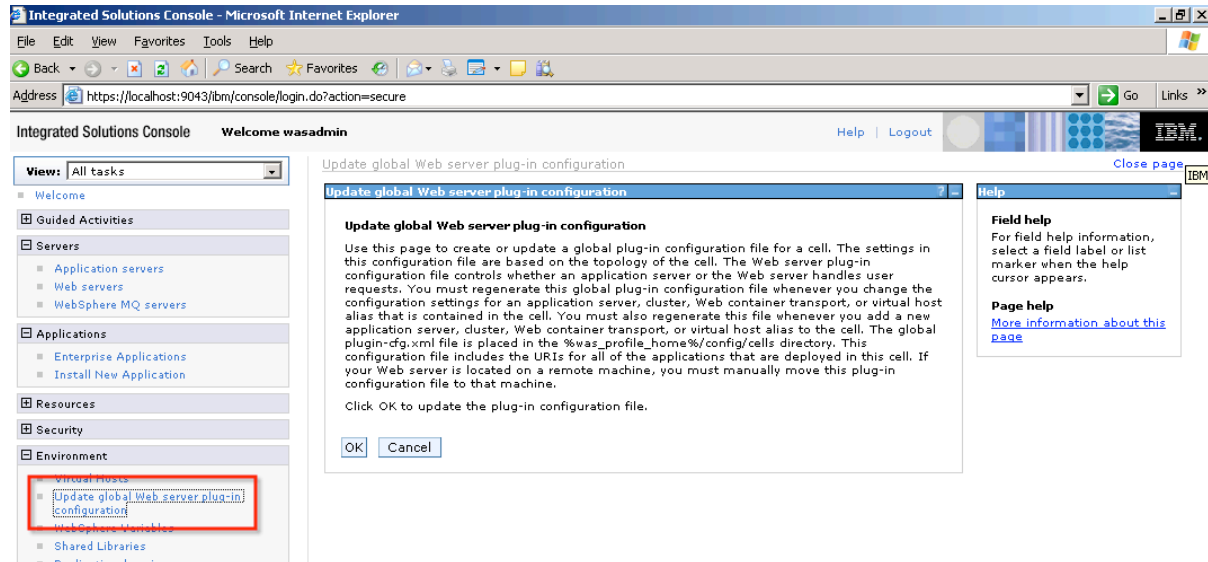
Total 1



Click Generate Plug-in

Select the check box again and click Propagate plug-in

Click Environment -> Update global Web server plug-in configuration



Click OK

# Configure LotusConnections-config.xml

Backup and then edit the LotusConnections-config.xml file found in:

```
<wasinstall>\profiles\AppSrv01\config\cells\<hostname>Node01Cell1\LotusConnections-config
```

Note AppSrv01 will be different if you have used custom profiles.

Save a backup version of this document

There will be an `<slloc:` entry for each feature (Blogs, Communities etc.)

Within the entry there is an href and ssl\_href for each feature with a URL. This URL will have a port number – eg <http://<hostname>:9082/activities> and <https://<hostname>:9445/activities>

Change both URLs so that the port information is removed and they look like:

<http://<hostname>/activities>

<https://<hostname>/activities>

and repeat for all other features.

Essentially wherever there is a URL in this document with a port number you should remove it.

Save and close this file.

## Final steps

Click Start -> All Programs -> IBM HTTP Server v6.1 -> Stop HTTP Server

Click Start -> All Programs -> IBM HTTP Server v6.1 -> Start HTTP Server

From the command line navigate to

```
<wasinstall>\bin (eg C:\WebSphere\AppServer\bin) and run
```

and run

```
stopserver server1 -username <wasadmin> -password <wasadminpwd>
```

```
stopserver <connectionsserver> -username <wasadmin> -password <wasadminpwd>
```

Then run

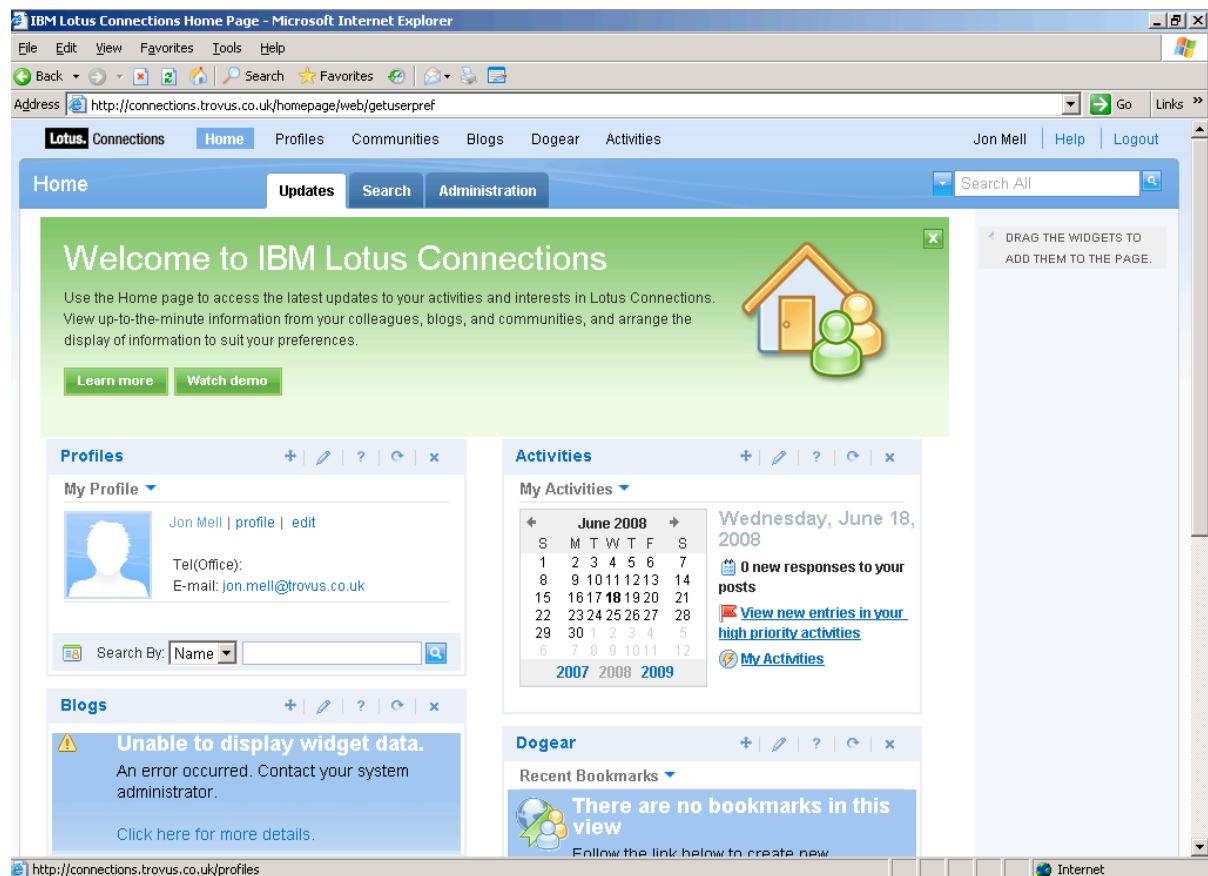
```
startserver <connectionsserver>
```

If you installed Connections across multiple servers using the Typical or Custom method start these servers too.

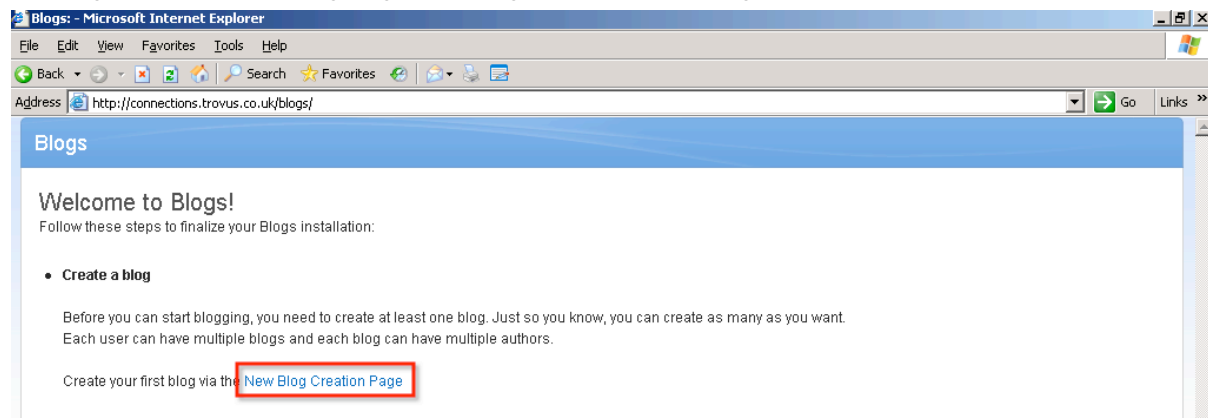
Then open a browser to `<connectionshome>`

Login using the user that you mapped to the admin roles for Homepage and Blogs

You should see a page that looks like this

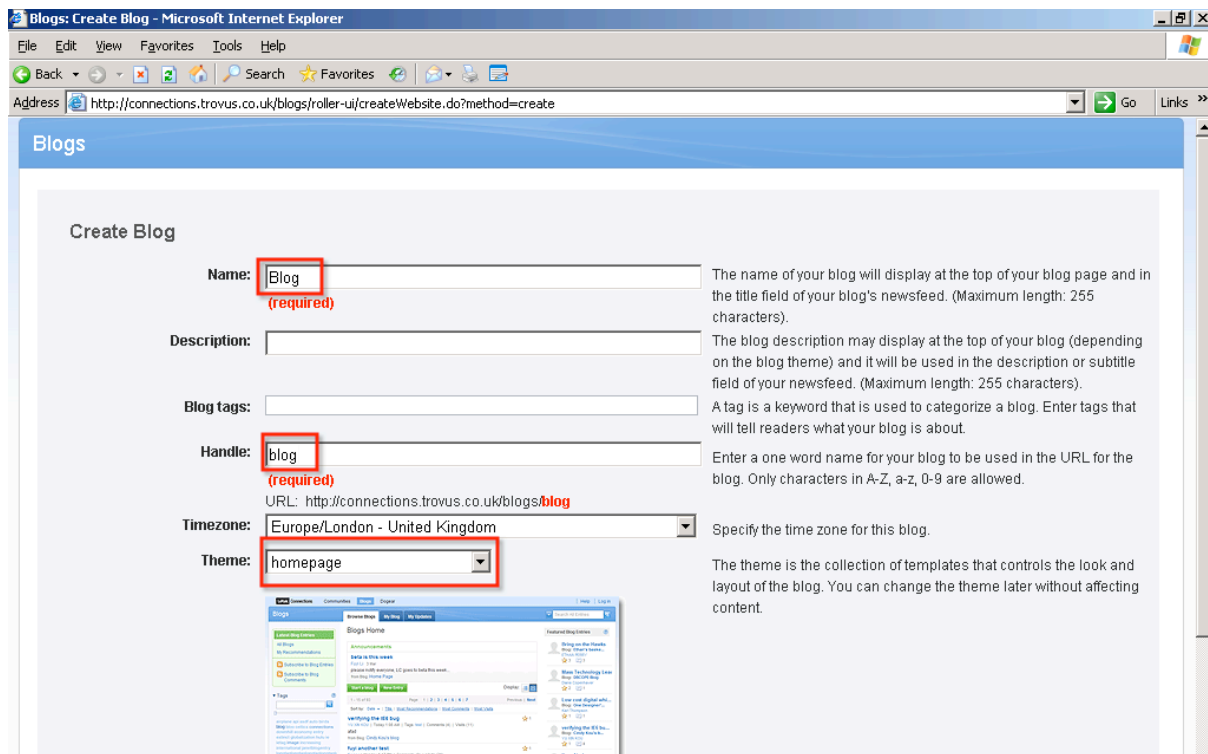


The blogs feature needs configuring. Click Blogs at the top of the page.

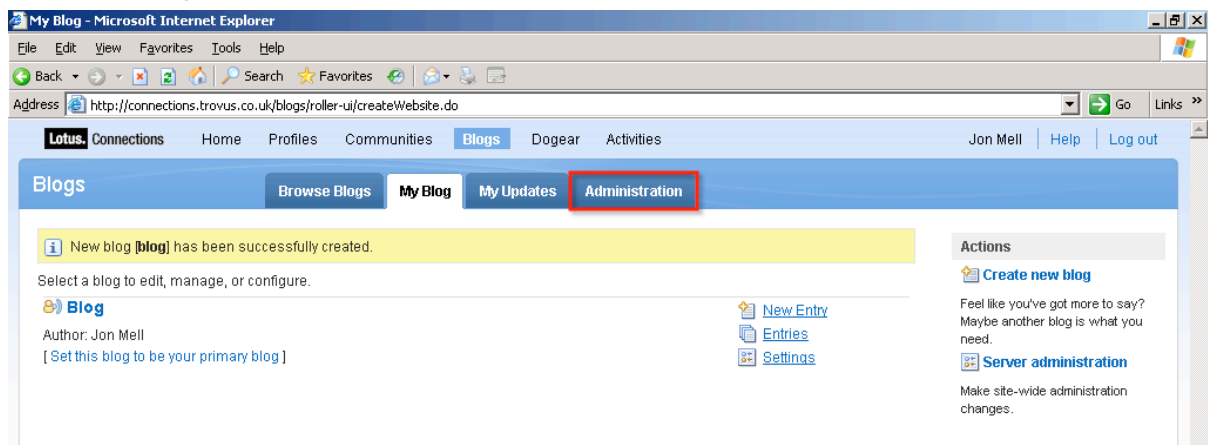


Click New Blog Creation Page

Enter a name and a handle and change the theme to homepage



Click Create Blog



Click Administration.

Enter the handle of the blog you just created in Handle of blog to server as frontpage blog.

Address: <http://connections.trovus.co.uk/blogs/roller-ui/admin/rollerConfig.do?method=edit>

Lotus Connections Home Profiles Communities **Blogs** Dogear Activities Jon Mell Help Log out

**Blogs** Browse Blogs My Blog My Updates **Administration**

**Configuration**

- Blogs Admin
- Comments
- Flagged Content
- Cache Info

**Tips**

**New Administrator?**

- Learn more about social networking
- Ideas on what content

Change site-wide configuration settings.  
Changes you make here apply to the entire site. Changes are made as soon as you save; no server restart is required.

**Site settings**

Site name (for main page and feed): Blogs

Short name (shown in site banner): Blogs

Site description (for main page and feed):

Handle of blog to serve as frontpage blog: **blog**

Enable active content filtering: ☒

Automatic save when editing (minutes): 15

Click Save

Log out and log back in and the blogs widget on the homepage should now say that no blog entries are available rather than “unable to display widget data”.