

## Portal 4.1 STEW: Domino Installation and LDAP Configuration

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The purpose of this lab is to install and configure Domino Server and Administration client for use with WebSphere Portal V4.1. After configuration, you will be able to use Domino and LDAP for the WebSphere Portal Enable and Extend functions.

### Prerequisites:

DB2, WebSphere and IBM HTTP Server installed using Setup Manager  
(to avoid HTTP port conflicts)

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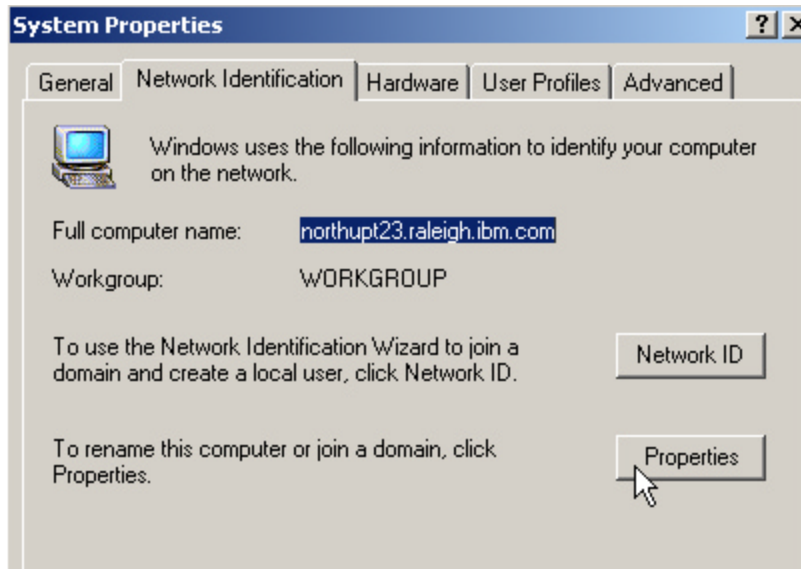
This lab attempts to accommodate those who have a Lotus Notes client installed and those who do not. There are different sections for those who do. Make sure you follow the correct sections, identified by their titles.

## 1 Configure Machine IP Domain Name

WebSphere Portal needs a fully-qualified IP domain name. You must do this configuration, which requires a re-start of your machine.

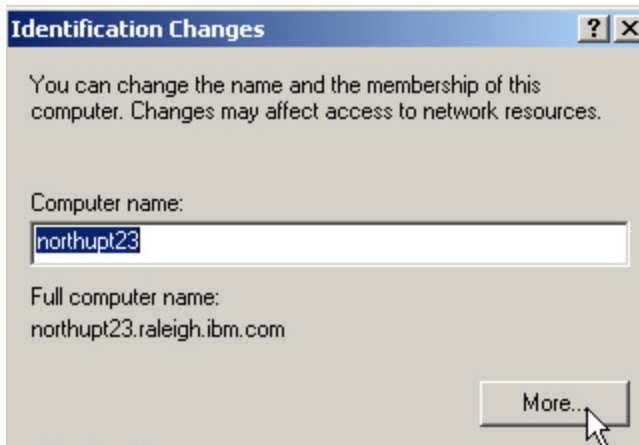
\_\_\_ 1.1 Go to the Control Panel – System settings.

\_\_\_ 1.2 On the Network Identification tab, see if your full computer name includes a “dotted” domain name. If it does, you can skip this section.

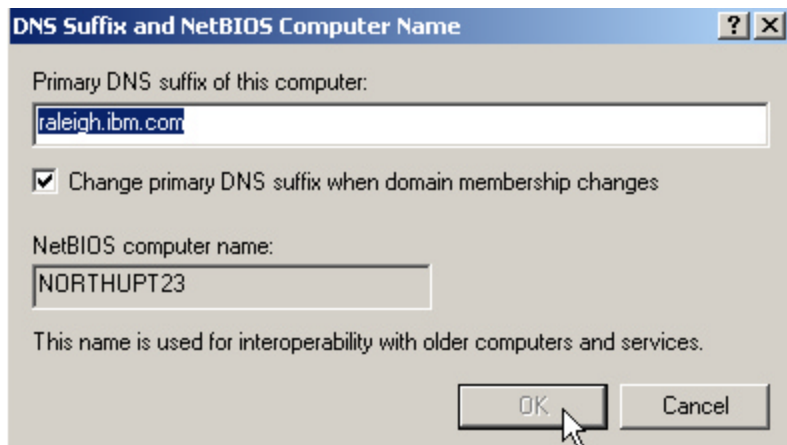


\_\_\_1.3 If it does not, press the Properties button.

\_\_\_1.4 Press the More button.



\_\_\_1.5 Enter an appropriate IP domain name and press OK.

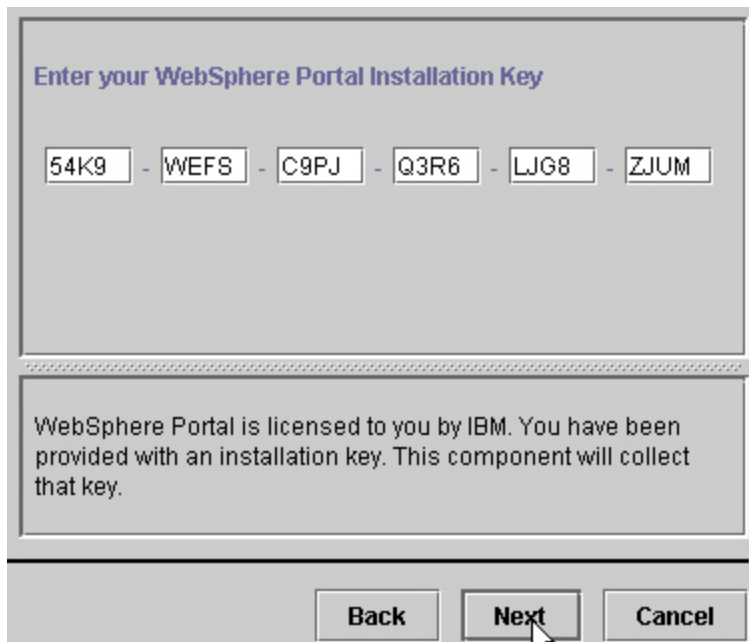


\_\_\_1.6 Re-boot your machine if necessary.

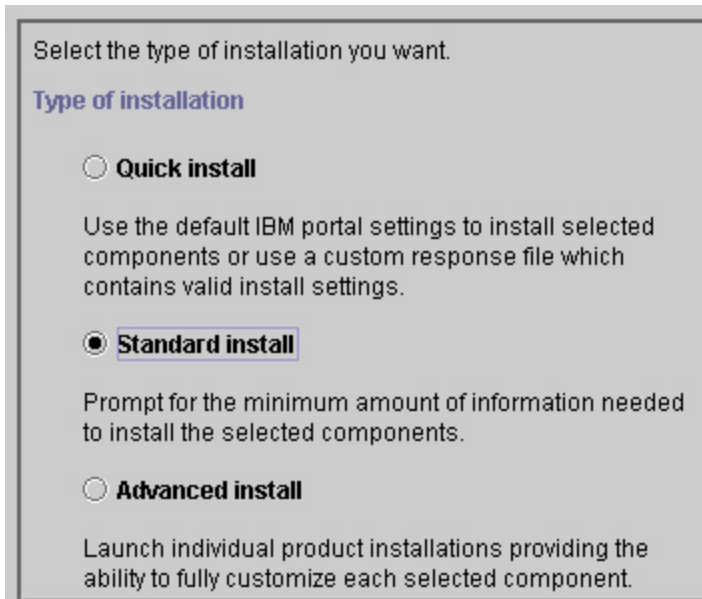
## 2 Install Domino Server

- \_\_\_ **2.1 If you have Lotus Notes installed on your machine, do the following.**
  - \_\_\_ **2.1.1** Make a note of the Notes install directory. It will be something like “C:\Notes” or “C:\Lotus\Notes”.
  - \_\_\_ **2.1.2** Make a backup copy of the file “notes.ini”, which is located in the Notes install directory.
- \_\_\_ **2.2 If you have Secureway LDAP running, stop the service and configure it for manual startup.**
- \_\_\_ **2.3 Insert Portal 4.1.2 CD1. If the Setup Manager does not automatically start, then run “install.bat”.**
- \_\_\_ **2.4 If the installer starts installing the IBM Cross Platform Technologies for Windows, proceed through the installation. This is simply the Java runtime environment for the Setup Manager.**
- \_\_\_ **2.5 Proceed through the panels until you are prompted for the installation key. Enter the following key and press Next.**

**54K9 – WEFS – C9PJ – Q3R6 – LJG8 – ZJUM**



- \_\_\_ **2.6 Choose Standard Install.**



Select the type of installation you want.

**Type of installation**

☐ **Quick install**

Use the default IBM portal settings to install selected components or use a custom response file which contains valid install settings.

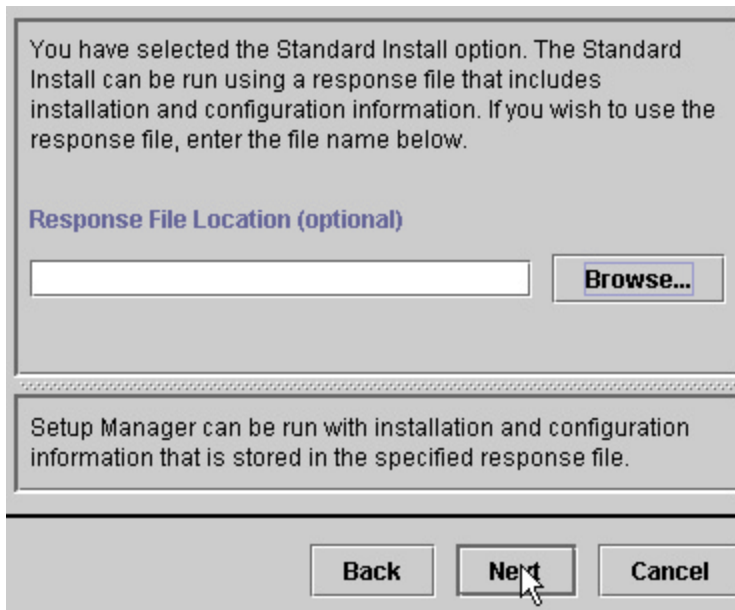
☒ **Standard install**

Prompt for the minimum amount of information needed to install the selected components.

☐ **Advanced install**

Launch individual product installations providing the ability to fully customize each selected component.

\_\_\_ **2.7 Leave the response file location blank and press Next.**



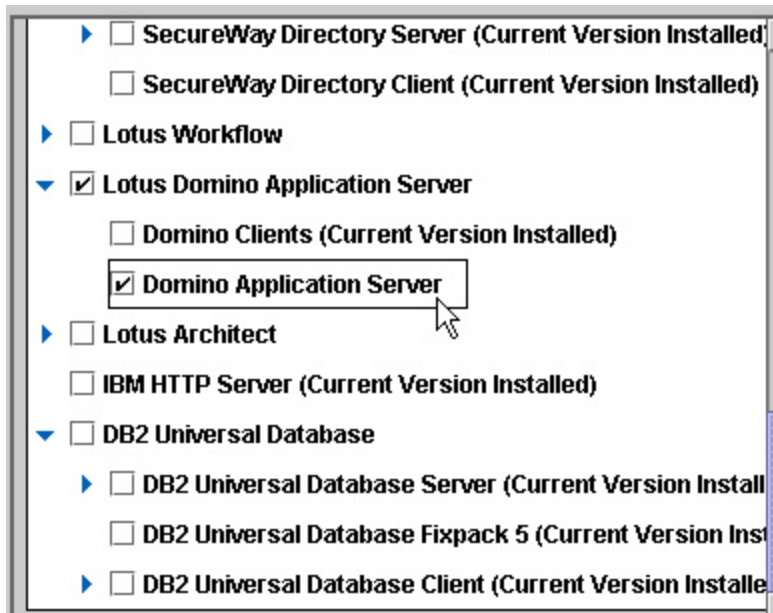
You have selected the Standard Install option. The Standard Install can be run using a response file that includes installation and configuration information. If you wish to use the response file, enter the file name below.

**Response File Location (optional)**

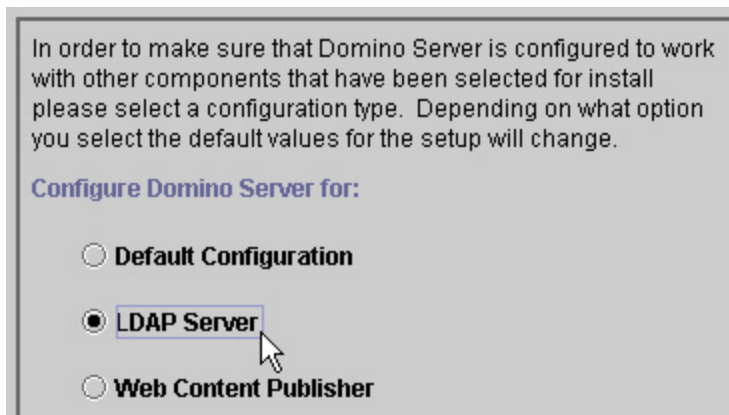
Setup Manager can be run with installation and configuration information that is stored in the specified response file.

\_\_\_ **2.8 Select ONLY the Lotus Domino Application as shown below. Verify that NO OTHER Portal components are selected at this time! If you have Lotus Notes installed, then the “Domino Clients” item will say “Current Version Install”.**

**Press Next.**



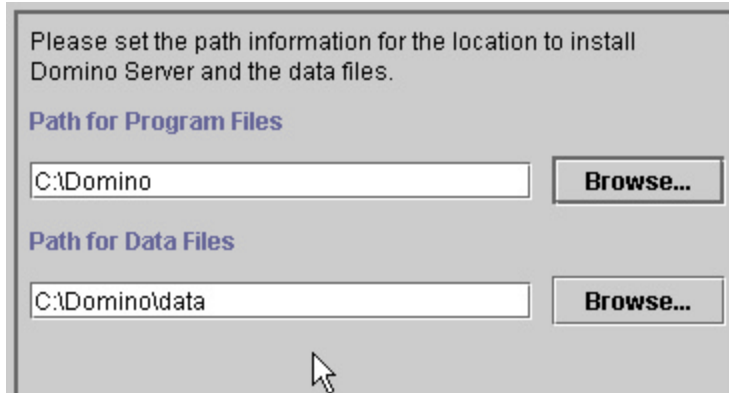
\_\_\_2.9 Select LDAP Server and press Next.



\_\_\_2.10 Choose Domino Application Server and press Next.



\_\_\_2.11 Change the install folders to the x:\Domino and x:\Domino\data folders as shown below, to prevent conflicts with any Lotus Notes client. Press Next.



Please set the path information for the location to install Domino Server and the data files.

**Path for Program Files**

C:\Domino

**Path for Data Files**

C:\Domino\data

A mouse cursor is pointing at the bottom center of the dialog box.

**2.12 Enter the following server values. DO NOT ENTER ANY OTHER VALUES, OR THE STEW LABS WILL NOT WORK.**

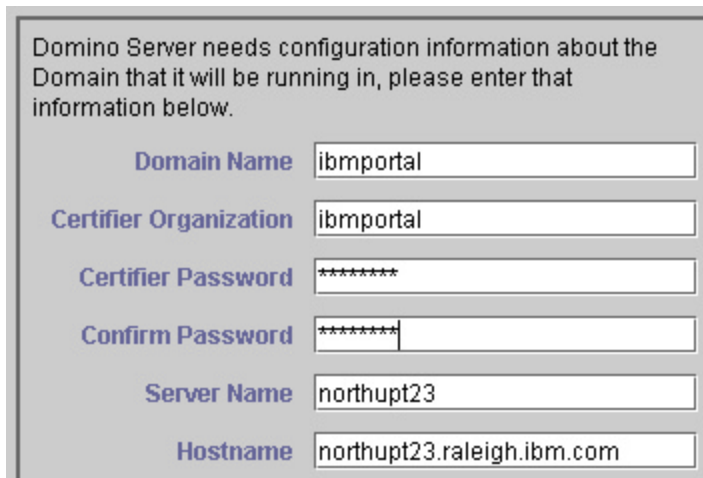
Domain name: ibmportal

Certifier Organization: ibmportal

Certifier Password: password

Server Name: (your machine short host name)

Hostname: (your fully-qualified ip host name)



Domino Server needs configuration information about the Domain that it will be running in, please enter that information below.

|                               |                            |
|-------------------------------|----------------------------|
| <b>Domain Name</b>            | ibmportal                  |
| <b>Certifier Organization</b> | ibmportal                  |
| <b>Certifier Password</b>     | *****                      |
| <b>Confirm Password</b>       | *****                      |
| <b>Server Name</b>            | northupt23                 |
| <b>Hostname</b>               | northupt23.raleigh.ibm.com |

First Name: Portal

Last Name: Admin

Password: password

Allow Anonymous Login: (not selected)

## Portal 4.1 STEW: Domino Installation and LDAP Configuration

A name for the Administrative user must be entered in order to allow configuration of the Domino Server, please select a username to use.

|                               |  |
|-------------------------------|--|
| <b>First Name</b>             | <input type="text" value="Portal"/>    |
| <b>Middle Name (Optional)</b> | <input type="text"/>                   |
| <b>Last Name</b>              | <input type="text" value="Admin"/>     |
| <b>Password</b>               | <input type="password" value="*****"/> |
| <b>Confirm Password</b>       | <input type="password" value="*****"/> |

☐ **Allow Anonymous Login**

**Press Next to continue.**

**2.13 Enter the following values and press Next.**

Domino Server can be configured to run various services, select the options that best suit your needs.

**Select the Web Services for Domino Server to run:**

☒ **Web Server**

☒ **DIOP**

**Select the Directory Services for Domino Server to run:**

☒ **LDAP**

Domino can be configured for single sign-on (SSO). In order to configure for SSO you need to have a LTPA (Lightweight Third Party Authentication) Key already exported from WebSphere Application Server.

**Configure SSO Support at this time:**

☐ **Yes**

☒ **No**

**2.14 If you are prompted to enter the HTTP port, enter port 81 and press Next.**

A service that you have selected for Domino to configure has a port conflict. The port needed by the service is use. Please select an alternate port and continue.

**HTTP Server Port**

**2.15 Press Next and the install will start.**

The following components are selected for install.  
Components that appear that you have not selected are listed because a component that you have selected requires them in order to be installed. All components listed will be installed when you hit the next button.

Domino Application Server

Type of Install: Domino Application Server

Path for Program Files: C:\Domino

Path for Data Files: C:\Domino\data

Domain Name: ibmportal

Certifier Organization: ibmportal

Server Name: northupt23

Hostname: northupt23.raleigh.ibm.com

First Name: Portal

Middle Name (Optional):

Last Name: Admin

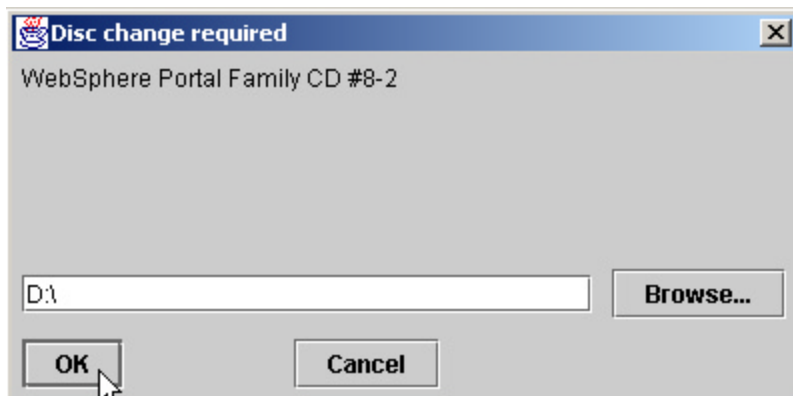
Web Services: Web Server,DIIOP

LDAP: LDAP

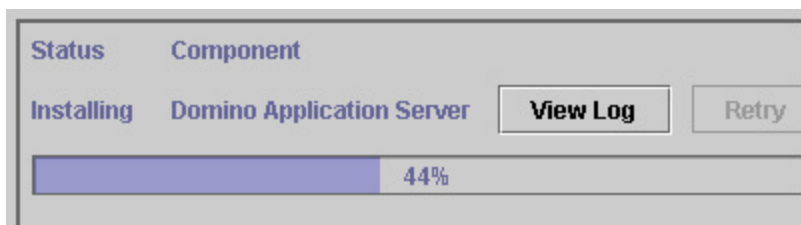
Enable SSO: No

**Back** **Next** **Cancel**

**2.16 Insert the Domino Server CD 8-2.**



\_\_\_2.17 You will see the status:



\_\_\_2.18 Do NOT press the keyboard while the following panel is displayed.



\_\_\_2.19 WAIT until installation is finished. If you get the following message, press OK.



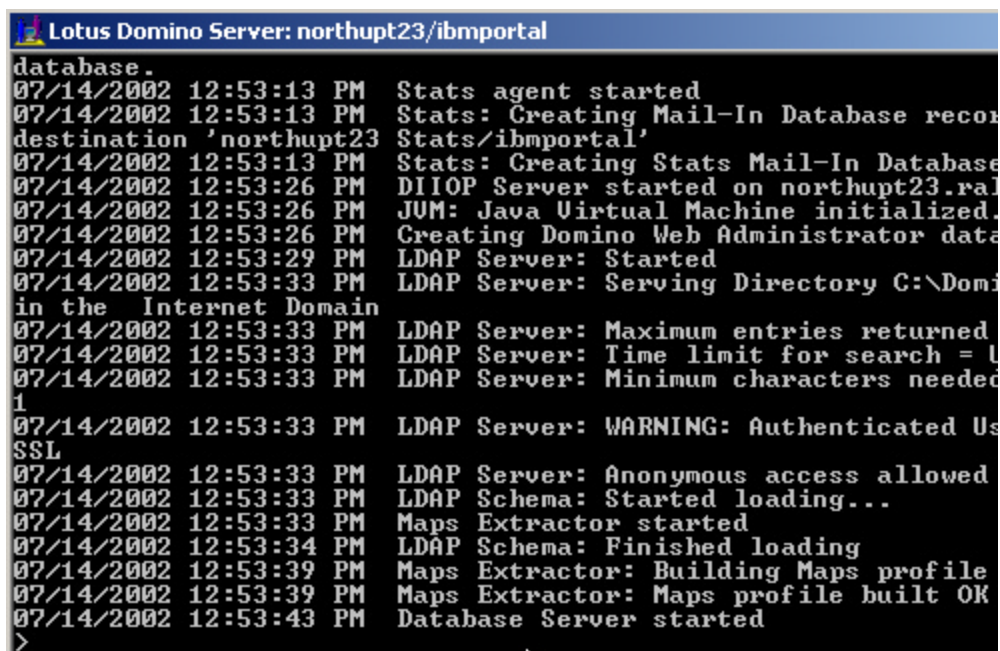
\_\_\_ 2.20 If the following panel is still active, close it using the Windows “X” button.



\_\_\_ 2.21 Chances are the installation is complete at this point. Close the setup manager.

### 3 Start Domino Server

\_\_\_ 3.1 Start the Lotus Domino Server using the Windows Services panel. Look for LDAP to start. Wait until the Database Server has started.



```
Lotus Domino Server: northhupt23/ibmportal
database.
07/14/2002 12:53:13 PM Stats agent started
07/14/2002 12:53:13 PM Stats: Creating Mail-In Database record
destination 'northhupt23 Stats/ibmportal'
07/14/2002 12:53:13 PM Stats: Creating Stats Mail-In Database
07/14/2002 12:53:26 PM DIIOP Server started on northhupt23.ral
07/14/2002 12:53:26 PM JUM: Java Virtual Machine initialized.
07/14/2002 12:53:26 PM Creating Domino Web Administrator data
07/14/2002 12:53:29 PM LDAP Server: Started
07/14/2002 12:53:33 PM LDAP Server: Serving Directory C:\Dom
in the Internet Domain
07/14/2002 12:53:33 PM LDAP Server: Maximum entries returned
07/14/2002 12:53:33 PM LDAP Server: Time limit for search = 1
07/14/2002 12:53:33 PM LDAP Server: Minimum characters needed
1
07/14/2002 12:53:33 PM LDAP Server: WARNING: Authenticated Us
SSL
07/14/2002 12:53:33 PM LDAP Server: Anonymous access allowed
07/14/2002 12:53:33 PM LDAP Schema: Started loading...
07/14/2002 12:53:33 PM Maps Extractor started
07/14/2002 12:53:34 PM LDAP Schema: Finished loading
07/14/2002 12:53:39 PM Maps Extractor: Building Maps profile
07/14/2002 12:53:39 PM Maps Extractor: Maps profile built OK
07/14/2002 12:53:43 PM Database Server started
>
```

\_\_\_ 3.2 Rename the file x:\Domino\data\user.id to “padmin.id”. This is the Portal Admin userid, and will be used throughout the labs.

\_\_\_ 3.3 Leave the Domino server running.

## 4 Install Domino Administrator Client – Notes Client Already Installed

Do this section **only** if Lotus Notes is already installed on your machine. If Notes is NOT installed, proceed to the next section.

\_\_\_ 4.1 If you have Lotus Notes installed, make backup copies of the following files, located in your \Notes\Data folder:

desktop5.dsk

names.nsf

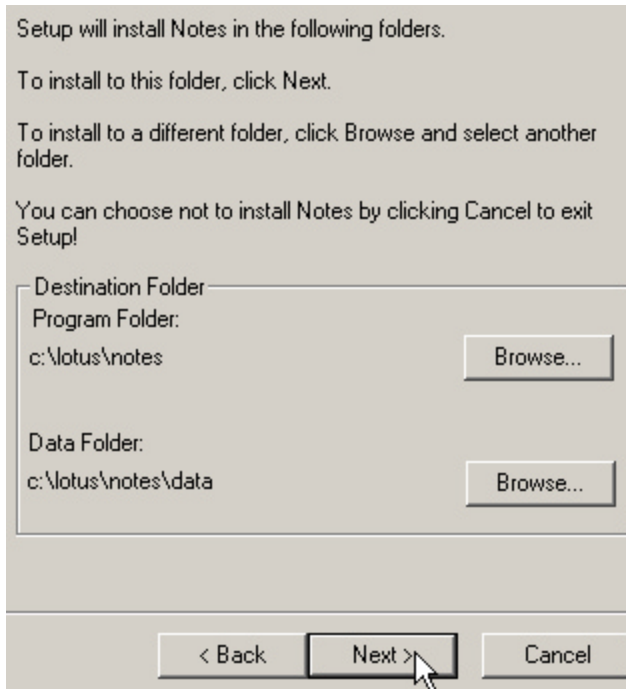
Verify you already have a backup copy of notes.ini from before.

In order to accommodate any existing Lotus Notes install, we will install the Domino Administrator manually.

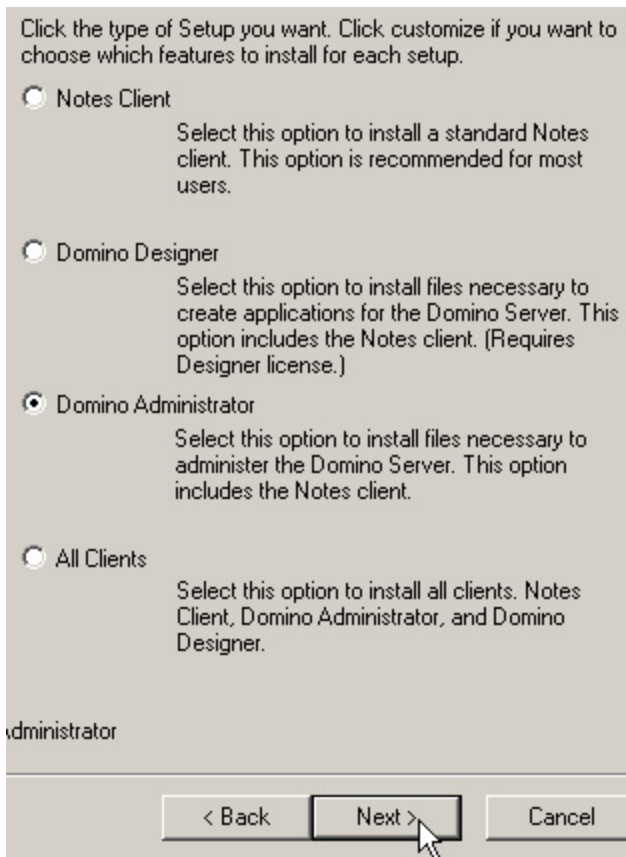
\_\_\_ 4.2 Insert Portal 4.1 CD 8-3.

\_\_\_ 4.3 Switch to the CD folder D:\lotus\win\clients\w32intel. Run the setup.exe program.

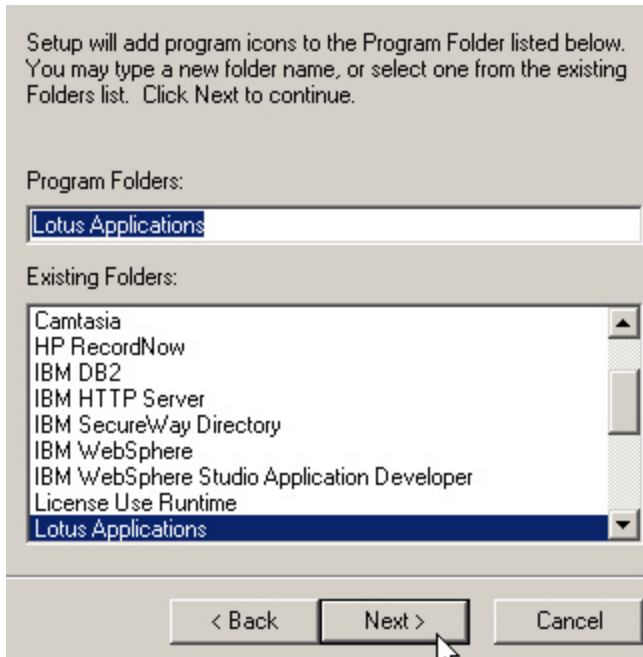
\_\_\_ 4.4 Proceed through the panels until the following is displayed. Make sure this time you DO enter the default install folders. Press Next.



**4.5 Choose Domino Administrator and press Next.**



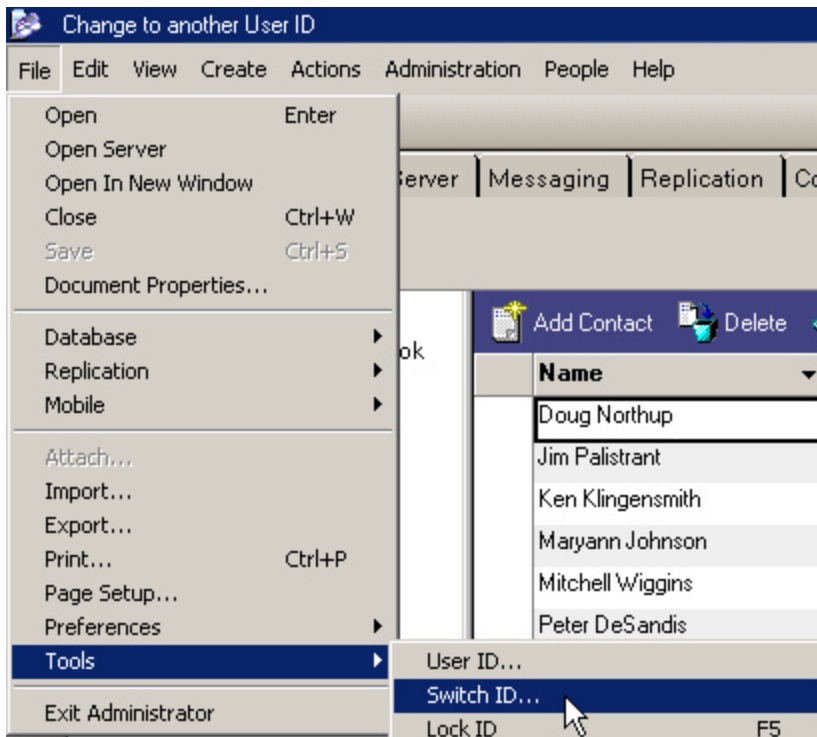
**4.6 Accept the icon program folder and press Next.**



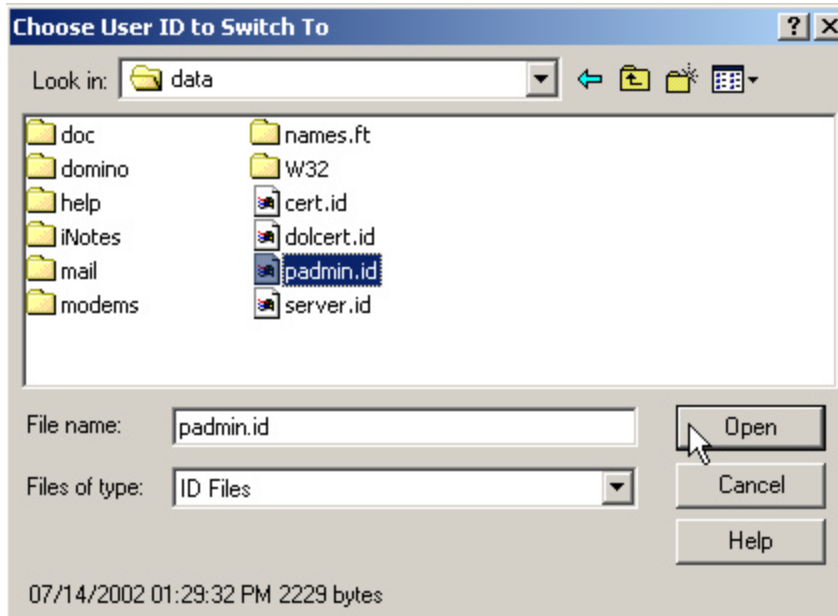
\_\_\_ **4.7 Finish the setup.**

\_\_\_ **4.8 Start the Domino Administrator using the Start Programs menu.**

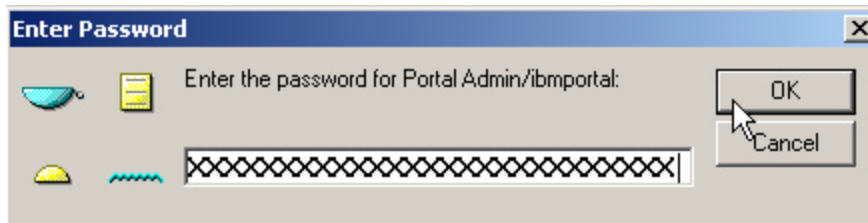
\_\_\_ **4.9 Choose File... Tools... Switch ID.**



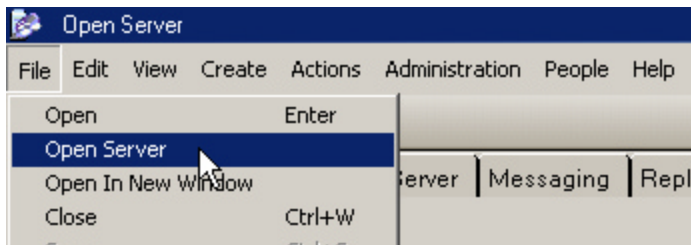
\_\_\_ **4.10 Choose your “padmin.id” file from the Domino/data folder.**



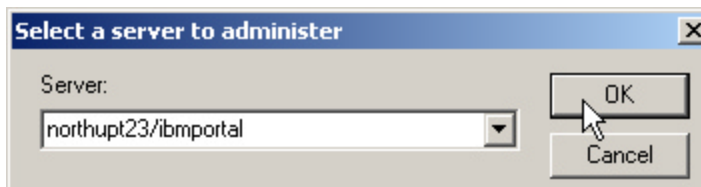
\_\_\_ **4.11 Enter the password, “password”. Press OK.**



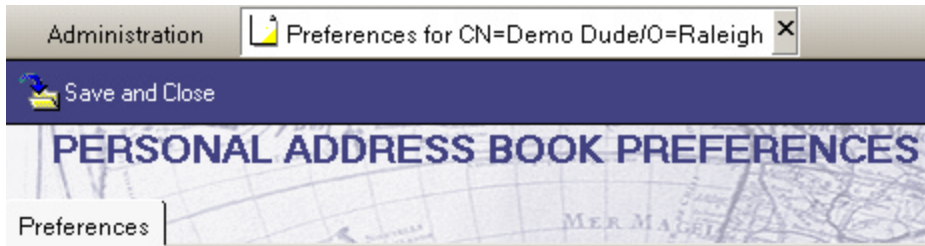
\_\_\_ **4.12 Choose File... Open Server.**



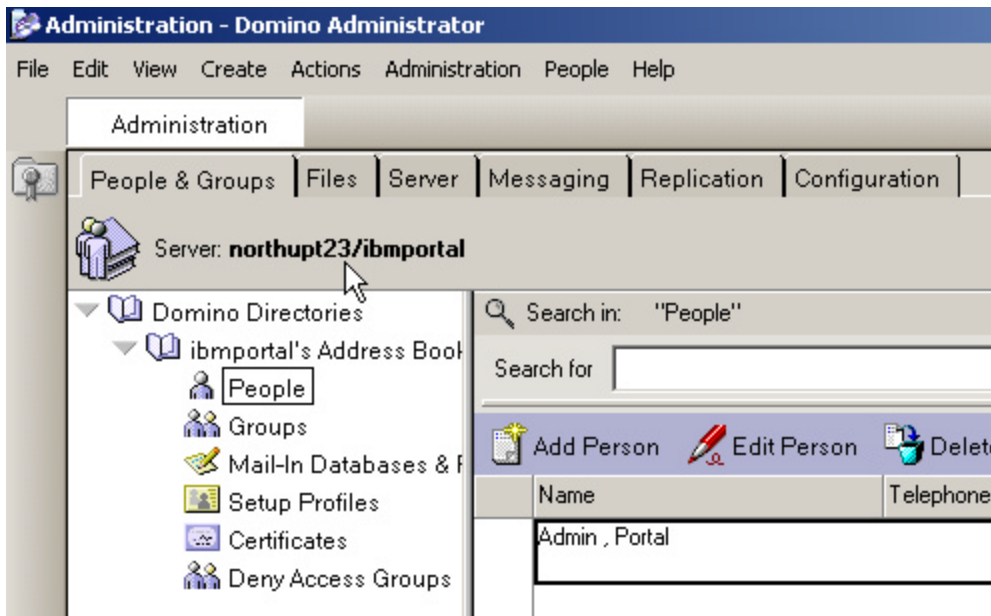
\_\_\_ **4.13 Enter your Domino server name, which is “your-host/ibmportal”.**



\_\_\_ **4.14 If you receive this panel, ignore it and press Save and Close.**



\_\_\_ 4.15 Verify you see your Domino server name as shown by the cursor below.



\_\_\_ 4.16 Domino Administrator setup is complete.

\_\_\_ 4.17 NOTE: If you have Lotus Notes installed, you will have to manually switch back and forth between your Lotus Notes id file (located in your Notes install folder) and your Domino Admin (padmin) id file, in order to use Notes in your production environment.

notes.ini (edit and check to see if Notes install folder needs updating)

desktop5.dsk

names.nsf

\_\_\_ 4.18 Proceed to the section “Register LDAP Users” below.

## 5 Install Domino Administrator Client – Notes Client NOT Installed

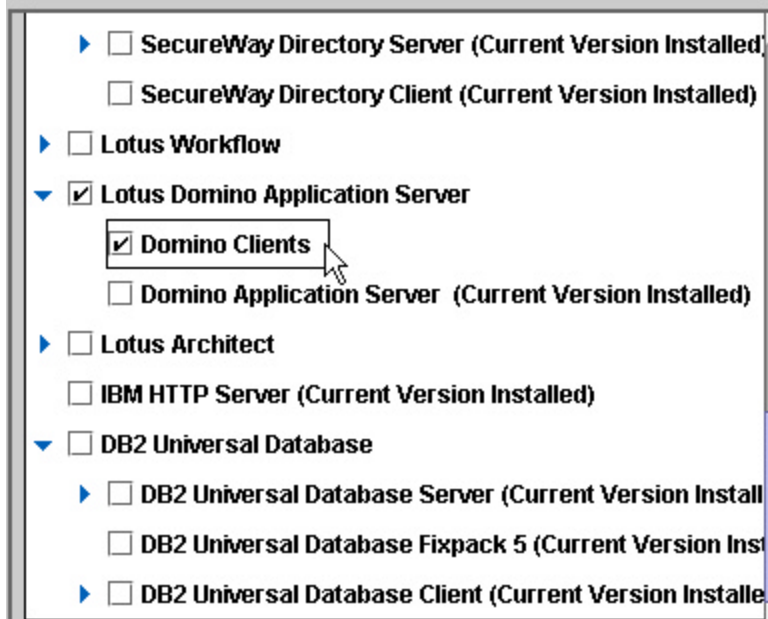
Do this section ONLY if the Lotus Notes client is NOT installed on your machine.

\_\_\_ 5.1 Insert Portal 4.1.2 CD1. If the Setup Manager does not automatically start, then run “install.bat”.

\_\_\_ 5.2 Proceed through the panels until you are prompted for the installation key. Enter the following key and press Next.

54K9 – WEFS – C9PJ – Q3R6 – LJG8 – ZJUM

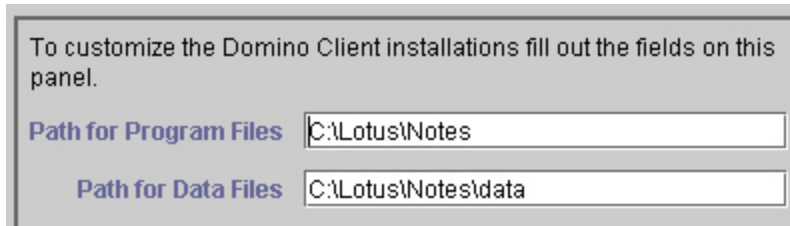
- \_\_\_ **5.3 Proceed until the following panel is displayed. Choose ONLY the Domino Clients feature. Verify NO OTHER Portal components are selected. Press Next.**



Installation component selection window:

- ☐ SecureWay Directory Server (Current Version Installed)
- ☐ SecureWay Directory Client (Current Version Installed)
- ☐ Lotus Workflow
- ☒ Lotus Domino Application Server
  - ☒ Domino Clients
  - ☐ Domino Application Server (Current Version Installed)
- ☐ Lotus Architect
- ☐ IBM HTTP Server (Current Version Installed)
- ☐ DB2 Universal Database
  - ☐ DB2 Universal Database Server (Current Version Install)
  - ☐ DB2 Universal Database Fixpack 5 (Current Version Inst)
  - ☐ DB2 Universal Database Client (Current Version Installe)

- \_\_\_ **5.4 Accept the default installation folders and press Next.**

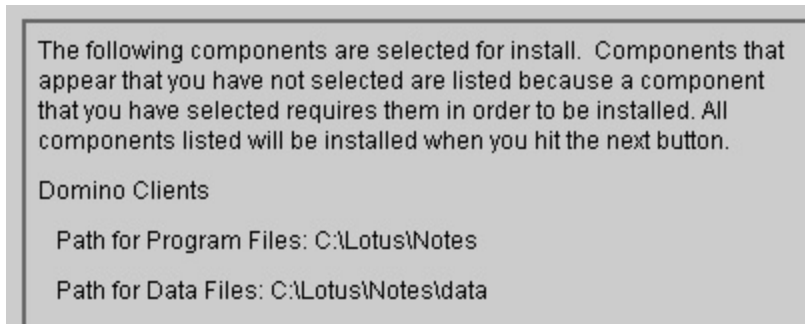


To customize the Domino Client installations fill out the fields on this panel.

Path for Program Files: C:\Lotus\Notes

Path for Data Files: C:\Lotus\Notes\data

- \_\_\_ **5.5 Press Next and the install will start.**



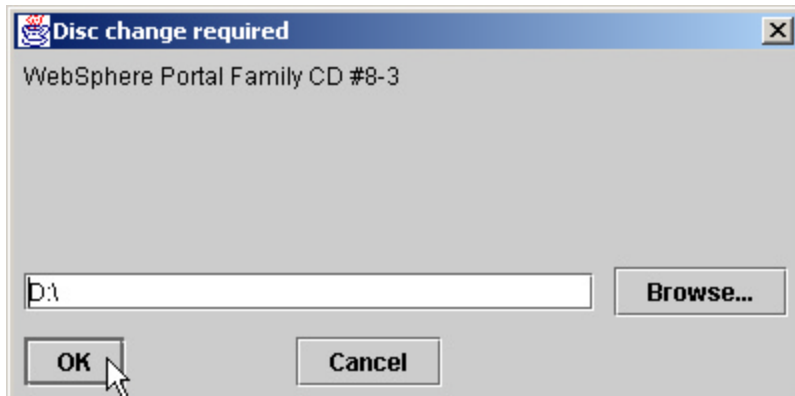
The following components are selected for install. Components that appear that you have not selected are listed because a component that you have selected requires them in order to be installed. All components listed will be installed when you hit the next button.

Domino Clients

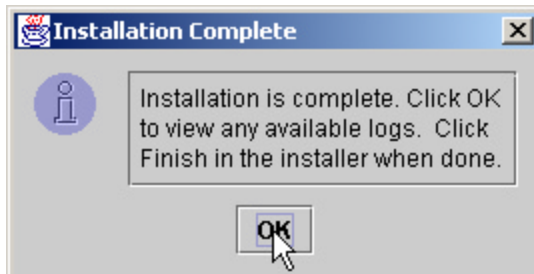
Path for Program Files: C:\Lotus\Notes

Path for Data Files: C:\Lotus\Notes\data

- \_\_\_ **5.6 Insert the Lotus Clients CD 8-3 and press OK.**



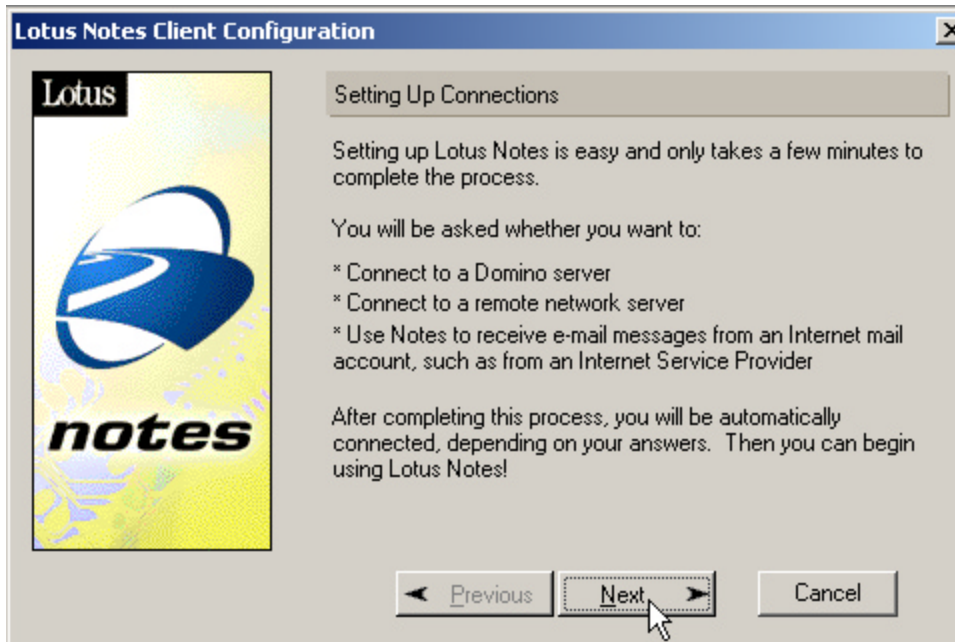
\_\_\_5.7 Wait for installation to complete. Press OK on the following panel.



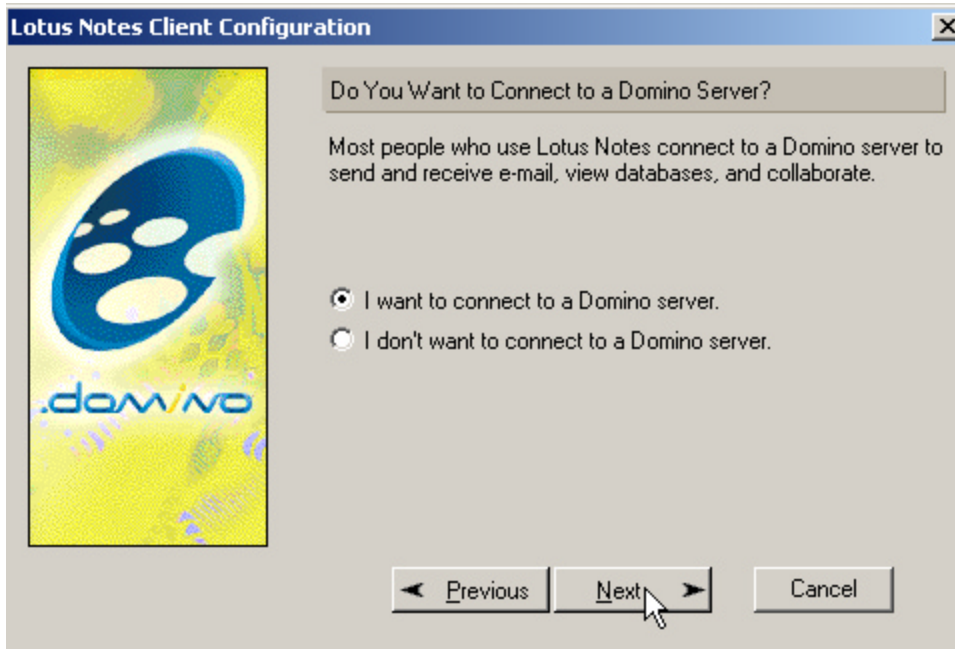
\_\_\_5.8 Close the Setup Manager.

\_\_\_5.9 Start the Domino Administrator using the Windows Start Programs menu.

\_\_\_5.10 Press Next below.



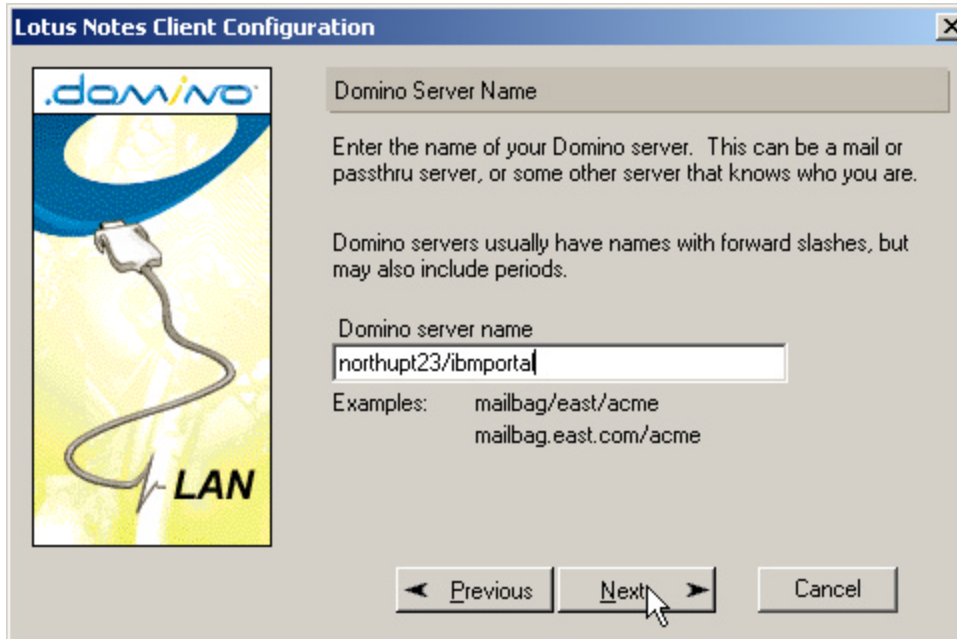
\_\_\_5.11 Choose "I want to connect to a Domino server" and press Next.



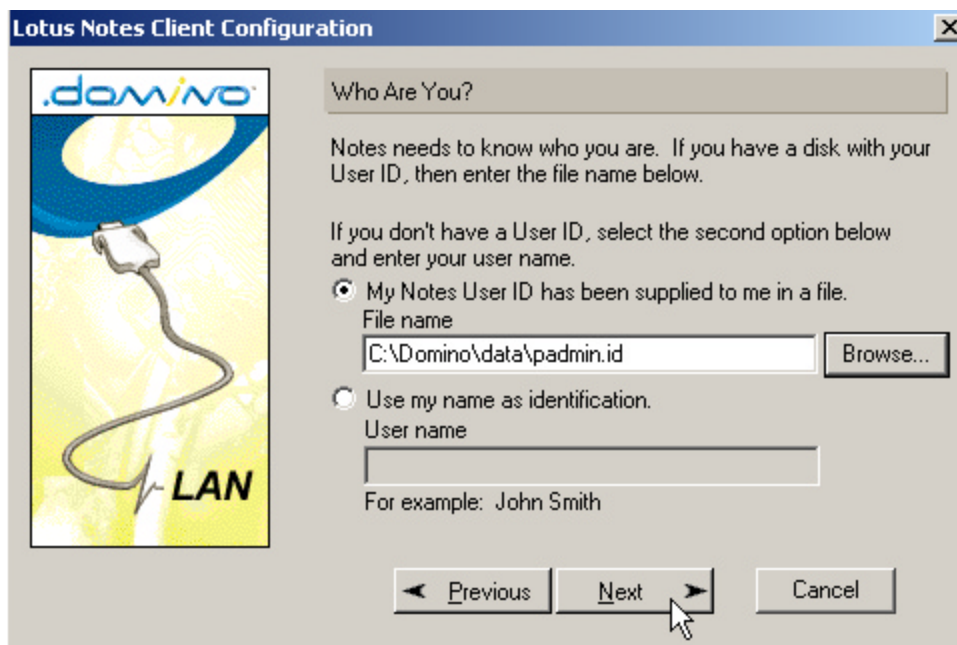
\_\_\_5.12 Choose LAN and press Next.



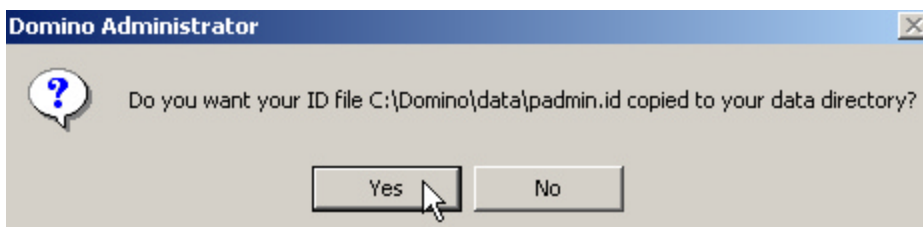
\_\_\_5.13 Enter the name of your running Domino server (your-host/ibmportal) and press Next.



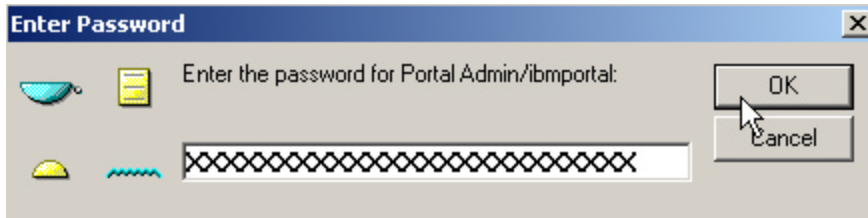
\_\_\_5.14 Browse to find your “padmin.id” file located in your x:\Domino\data folder. Press Next.



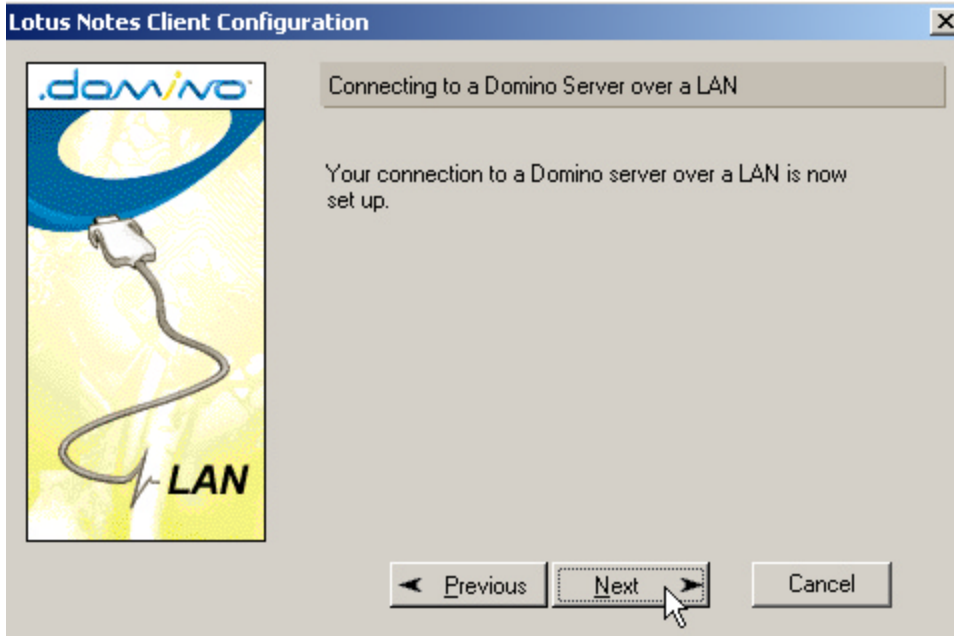
\_\_\_5.15 Choose Yes to copy this file you're your client data directory.



\_\_\_5.16 Enter the password “password” and press OK.



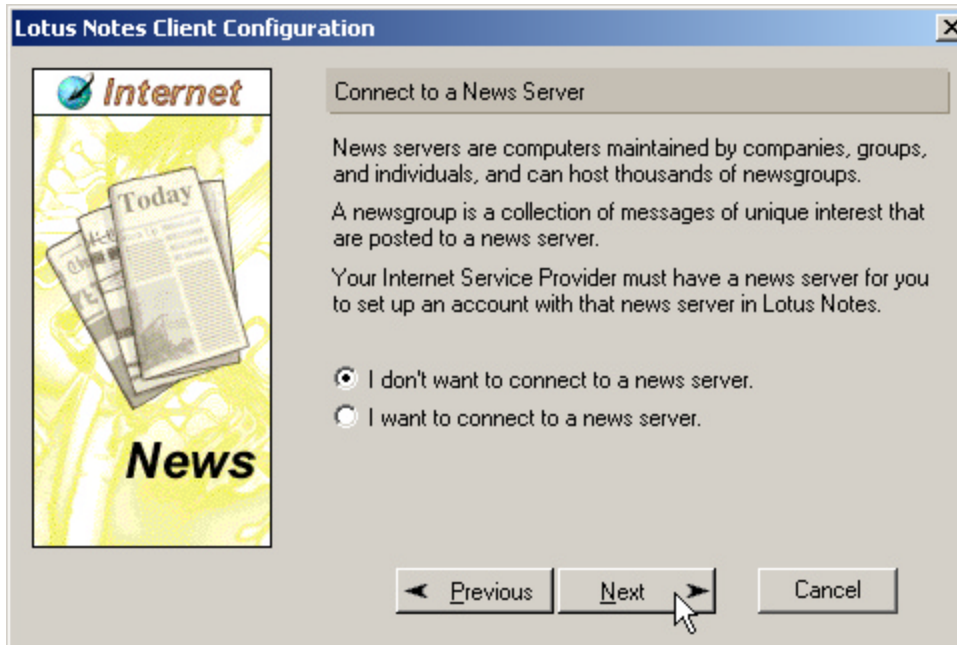
\_\_\_5.17 Press Next below.



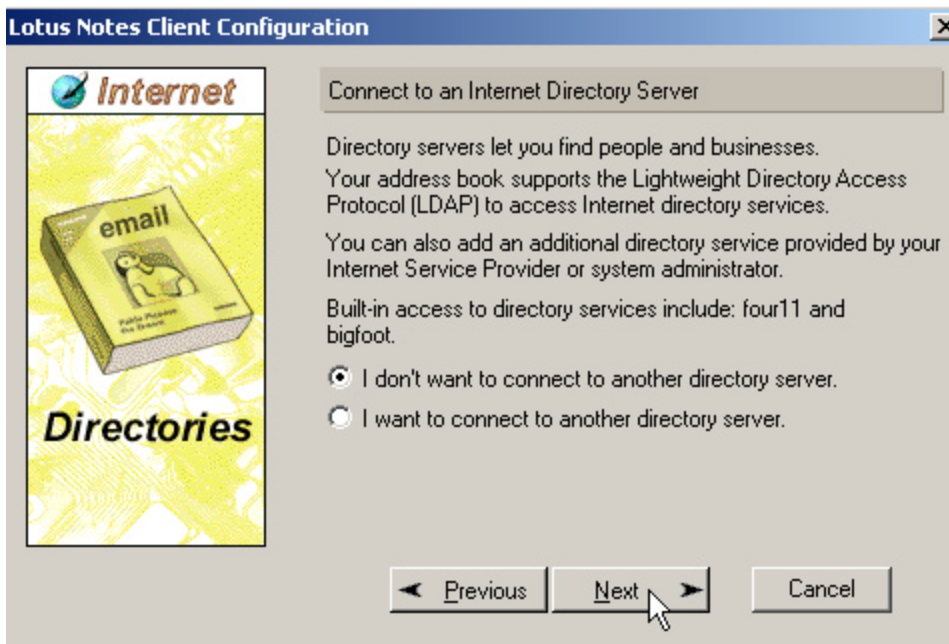
\_\_\_5.18 Choose “I don’t want to create an Internet mail account” and press Next.



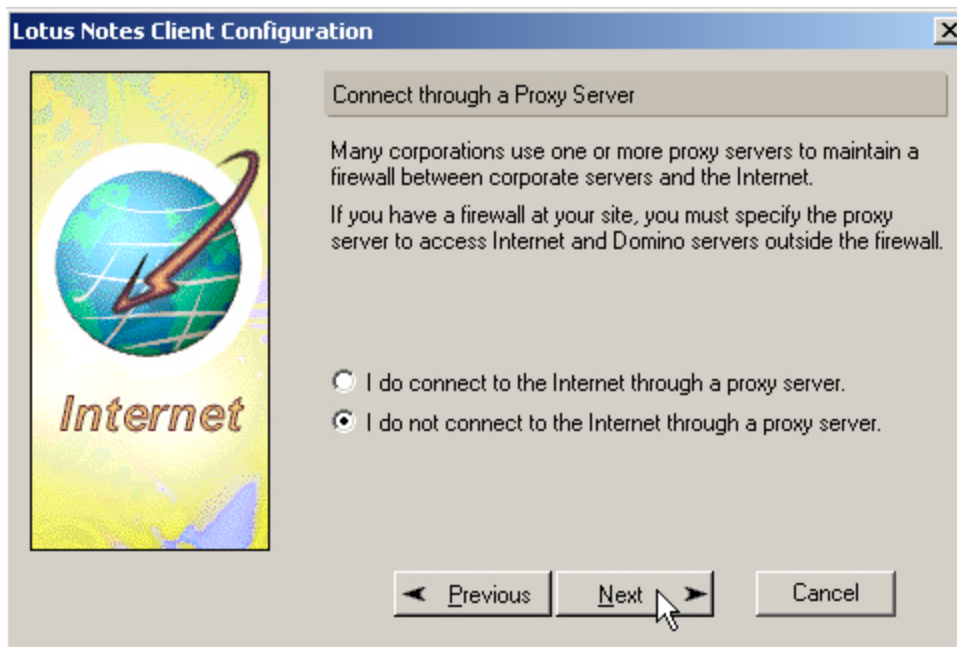
\_\_\_5.19 Choose “I don’t want to connect to a news server” and press Next.



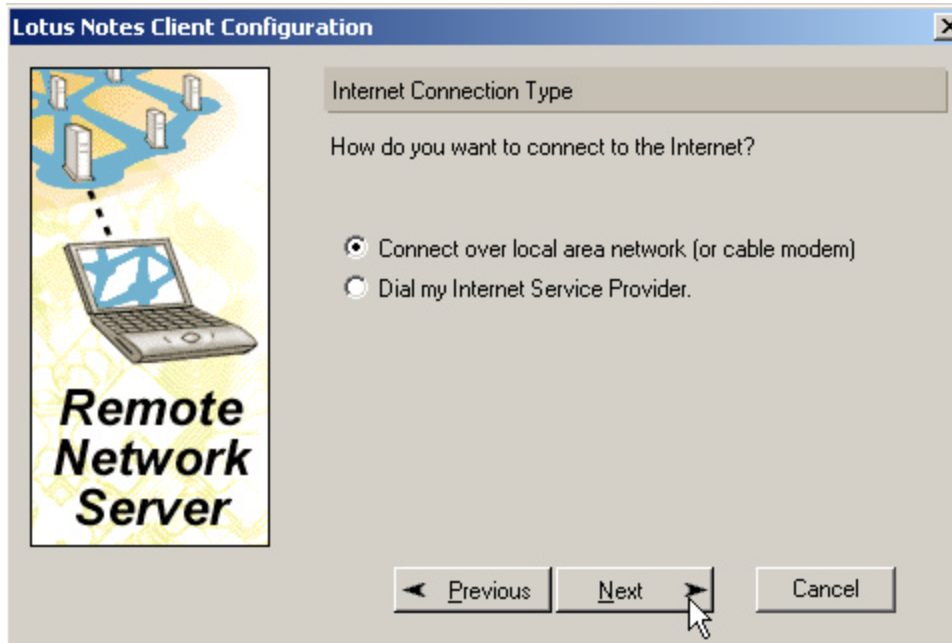
\_\_\_5.20 Choose “I don’t want to connect to another directory server” and press Next.



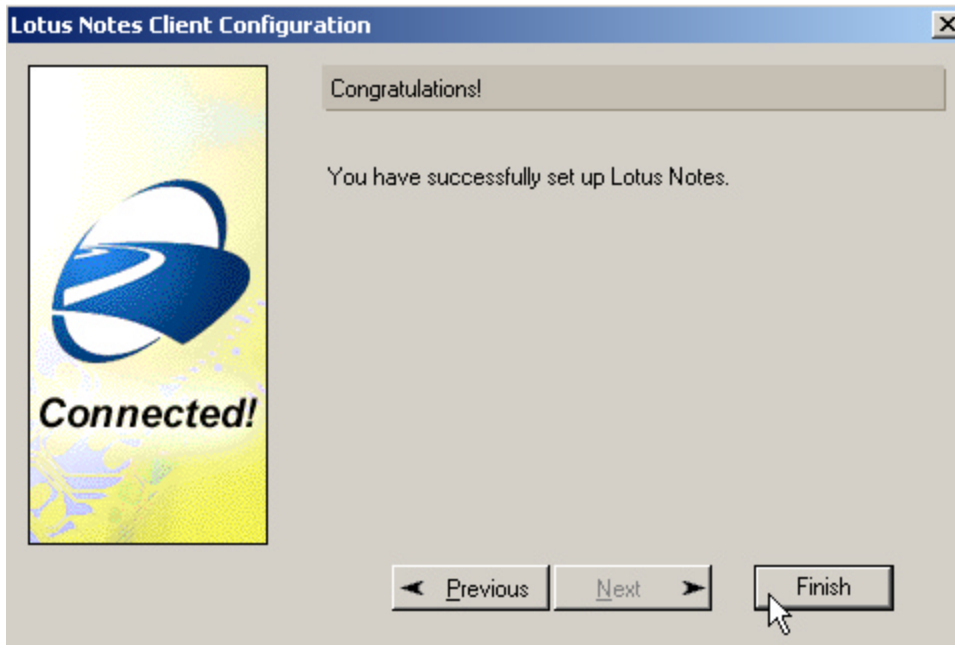
\_\_\_5.21 Choose “I do not connect to the Internet through a proxy server” and press Next.



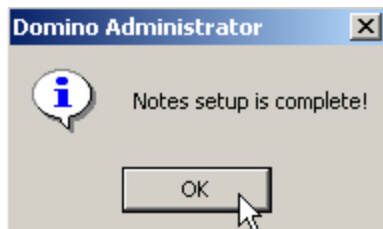
\_\_\_5.22 Choose to Connect over a local area network and press Next.



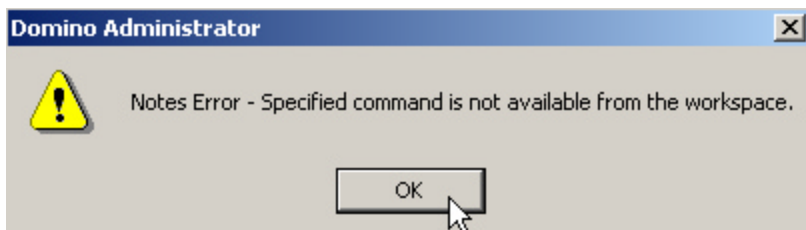
\_\_\_5.23 Press Finish.



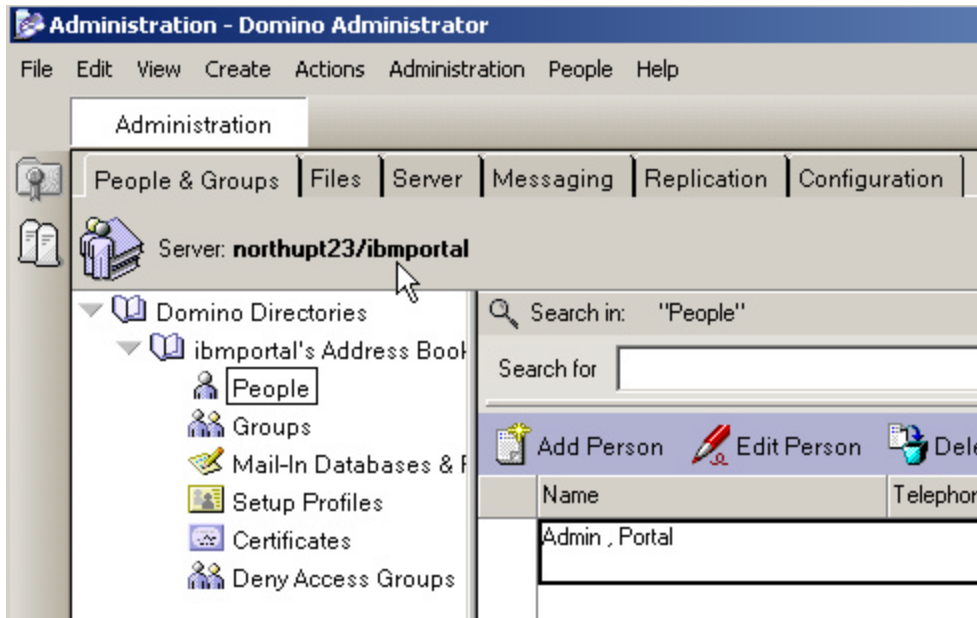
\_\_\_5.24 Press OK.



\_\_\_5.25 If you receive this message it is OK.



\_\_\_5.26 Switch to the Administration tab and verify your Domino server is shown by the cursor arrow.



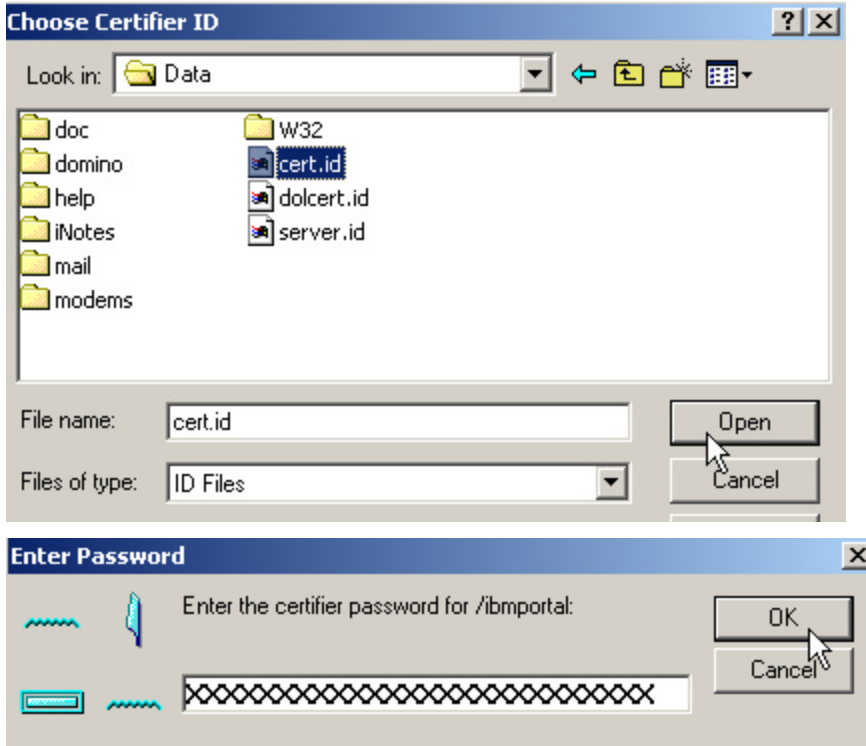
\_\_\_5.27 Domino Administrator setup is complete.

## 6 Register LDAP Users

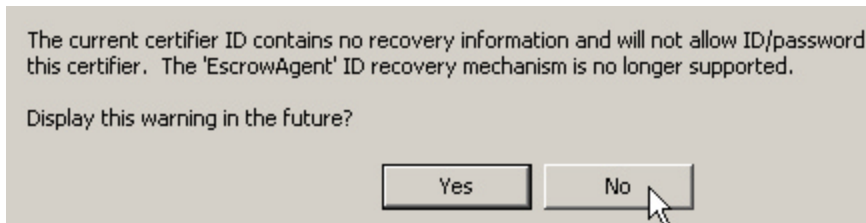
\_\_\_6.1 Press People... Register...



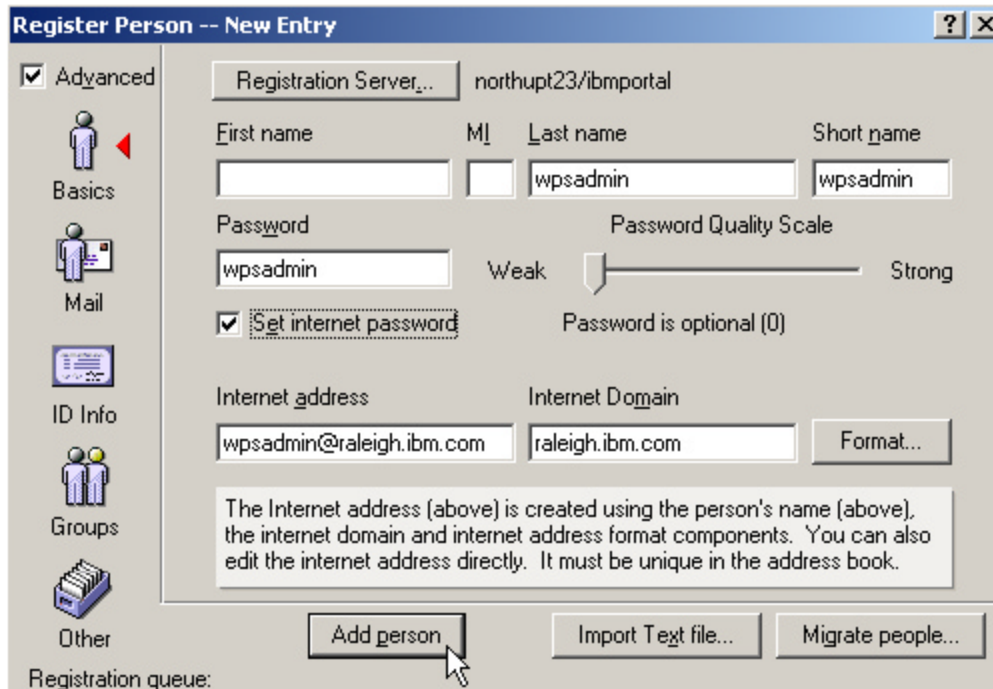
\_\_\_6.2 Choose the cert.id file located in your ...\\Domino\\data folder. Enter the password (password).



\_\_\_ 6.3 Do not display the warning in the future.



\_\_\_ 6.4 Create the wpsadmin userid by filling in the fields below. **PAY ATTENTION TO THE “Advanced” selection, the “Set Internet Password” selection, and the Short name. The Internet address can be anything. Your Internet Domino should match your machine IP configuration. Press “Add person”.**



**Register Person -- New Entry**

☒ Advanced

Registration Server... northupt23/ibmportal

First name MI Last name Short name

\_\_\_\_\_ wpsadmin wpsadmin

Password Password Quality Scale

wpsadmin Weak Strong

☒ Set internet password Password is optional (0)

Internet address Internet Domain

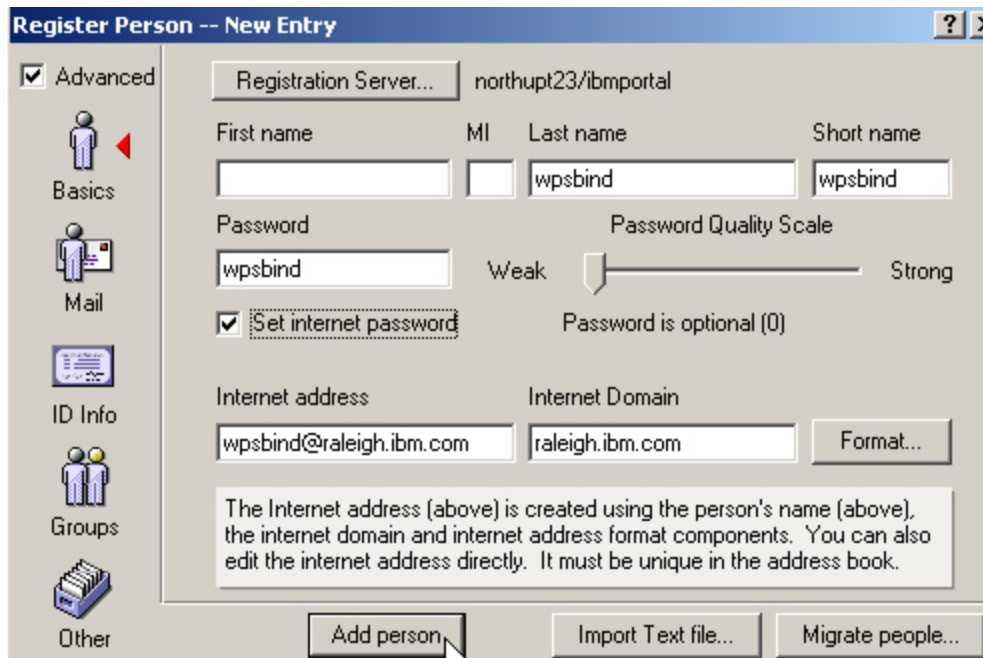
wpsadmin@raleigh.ibm.com raleigh.ibm.com Format...

The Internet address (above) is created using the person's name (above), the internet domain and internet address format components. You can also edit the internet address directly. It must be unique in the address book.

Add person Import Text file... Migrate people...

Registration queue:

\_\_\_ **6.5 Define the wpsbind userid as shown below. Press “Add person”.**



**Register Person -- New Entry**

☒ Advanced

Registration Server... northupt23/ibmportal

First name MI Last name Short name

\_\_\_\_\_ wpsbind wpsbind

Password Password Quality Scale

wpsbind Weak Strong

☒ Set internet password Password is optional (0)

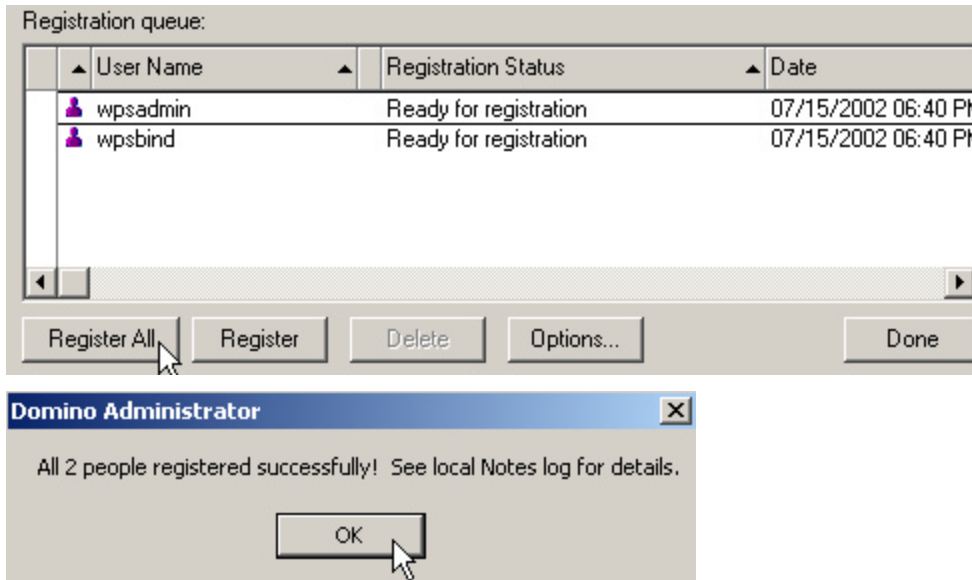
Internet address Internet Domain

wpsbind@raleigh.ibm.com raleigh.ibm.com Format...

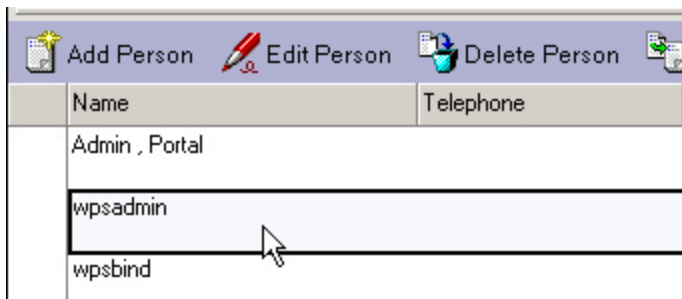
The Internet address (above) is created using the person's name (above), the internet domain and internet address format components. You can also edit the internet address directly. It must be unique in the address book.

Add person Import Text file... Migrate people...

\_\_\_ **6.6 Press “Register All” to complete the process.**



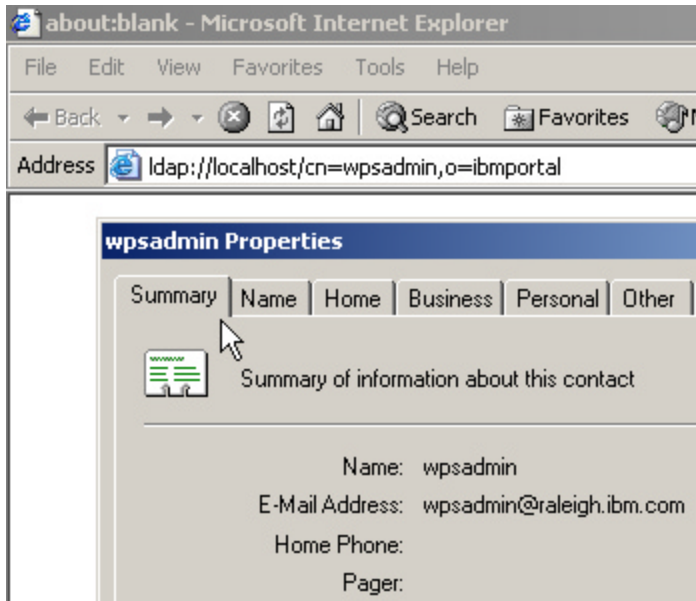
\_\_\_ **6.7 When complete, press Done and select View – Refresh. The new users are now displayed in your address book (and LDAP).**



## 7 Test LDAP

\_\_\_ **7.1 Open a browser to ldap://localhost/cn=wpsadmin,o=ibmportal.**

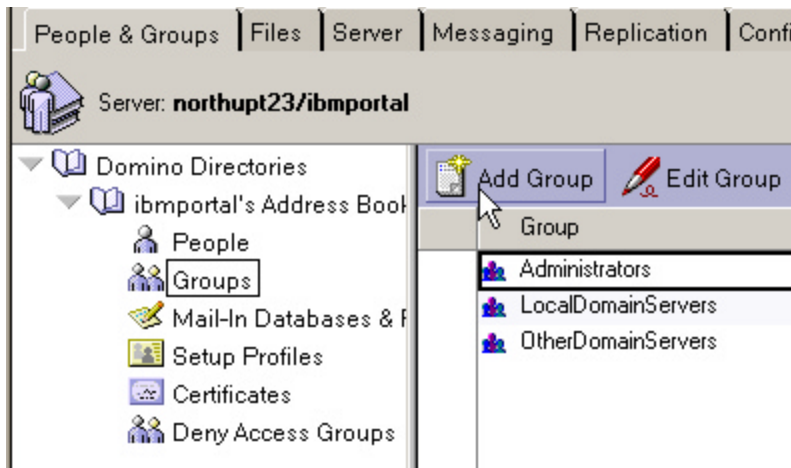
\_\_\_ **7.2 See the LDAP attributes:**



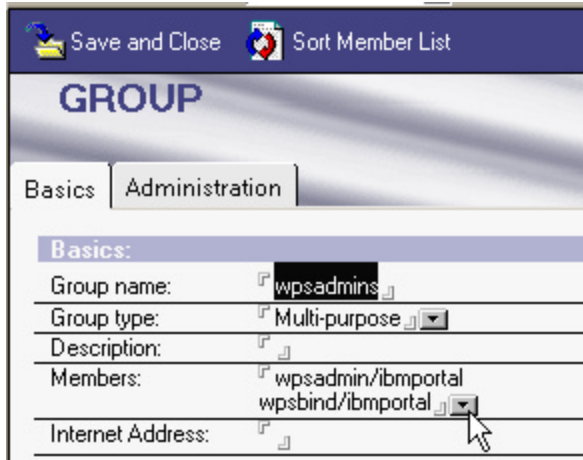
\_\_\_ 7.3 Open a browser to ldap://localhost/cn=wpsbind,o=ibmportal. Verify this also works.

## 8 Define a Group

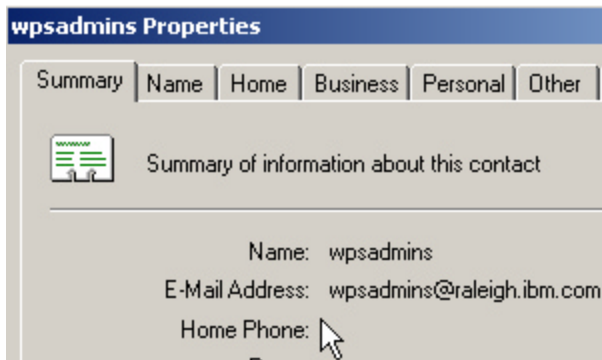
\_\_\_ 8.1 Switch to the Groups view. Press “Add Group”.



\_\_\_ 8.2 Name the group “wpsadmins”. Enter members “wpsadmin/ibmportal” and “wpsbind/ibmportal”. Press Save and Close.



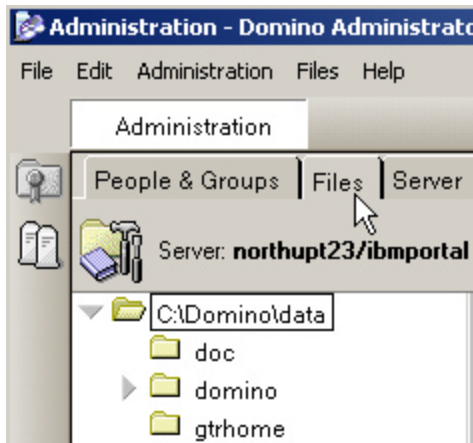
**8.3 Open a browser to ldap://localhost/cn=wpsadmins.**



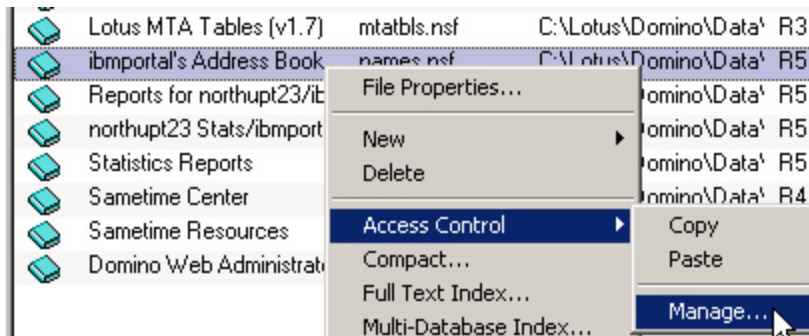
If this is not successful, press View – Refresh on the Domino Administrator. You may have to wait a few moment as well.

## 9 Set Access Rights

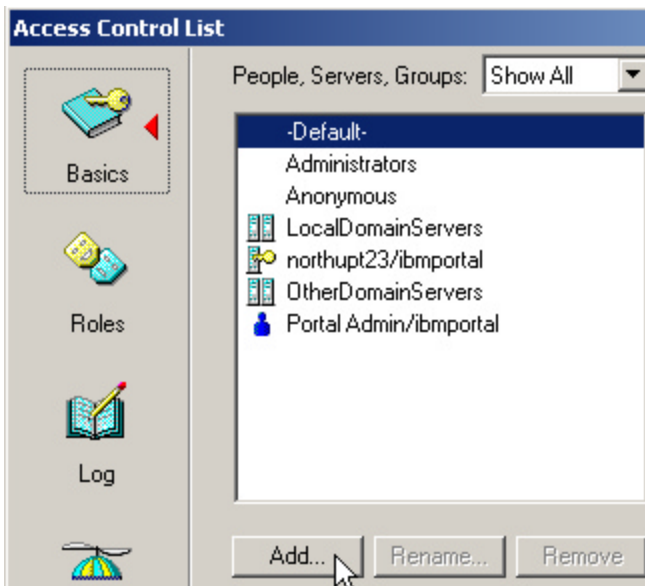
**9.1 Use the Domino Administrator to go to the Files tab.**



**9.2 Choose the “ibmportals’ Address Book, Access Control, Manage.**

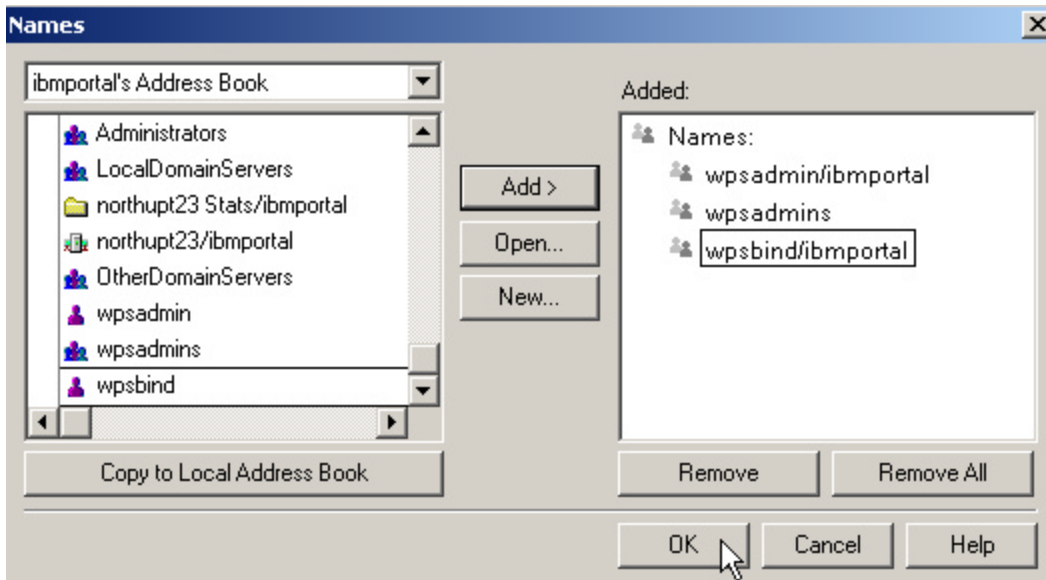


**9.3 Press Add.**

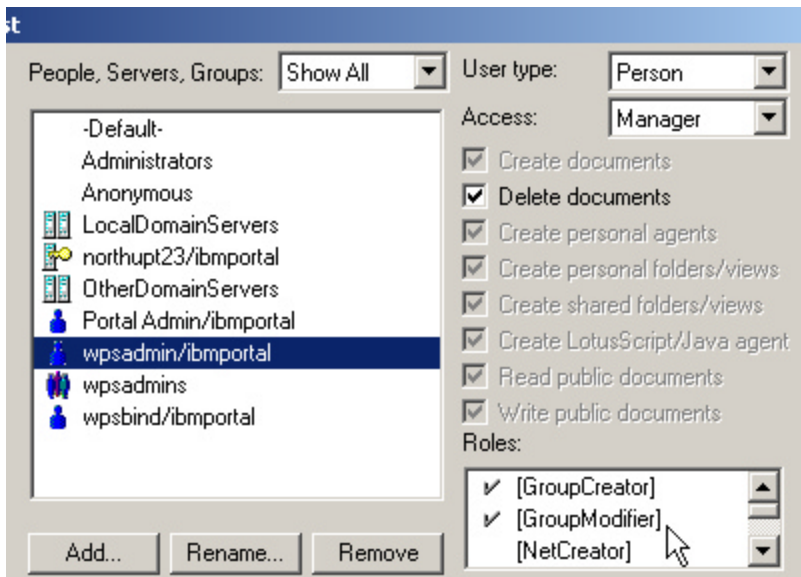


**9.4 Add the names shown and press OK.**

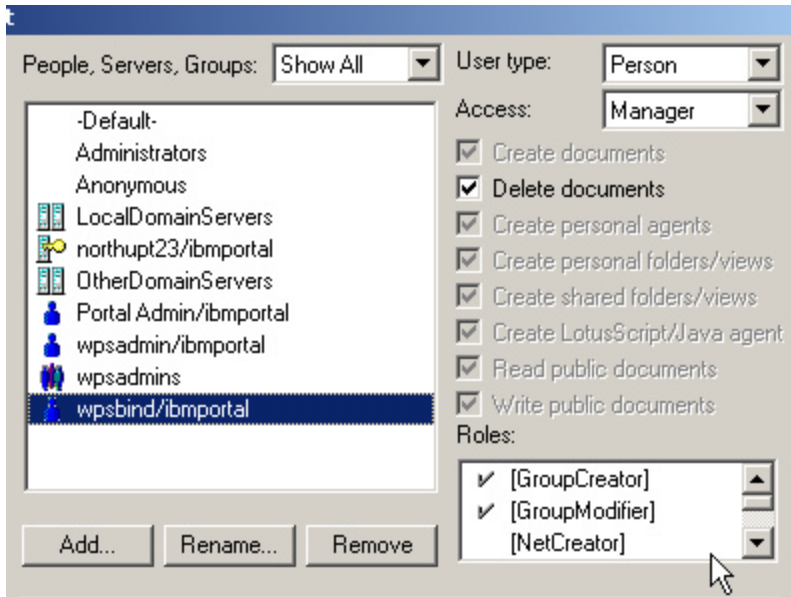




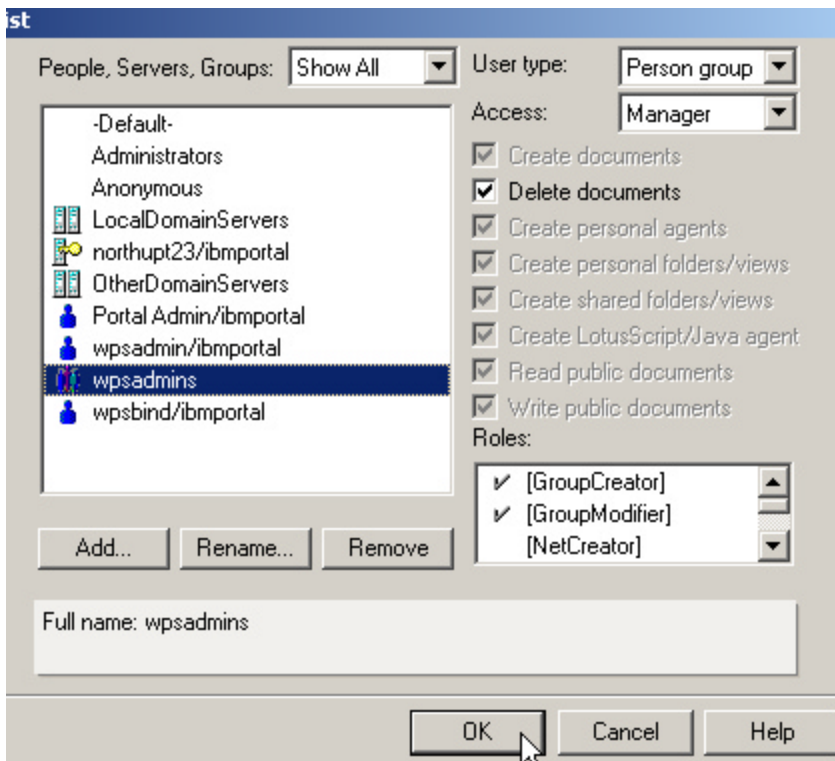
\_\_\_9.5 Set wpsadmin/ibmportal to User Type: Person. Access: Manager. Roles: GroupCreator, GroupModifier, UserCreator, UserModifier. Also set “Delete documents”.



\_\_\_9.6 Do the same for wpsbind/ibmportal.

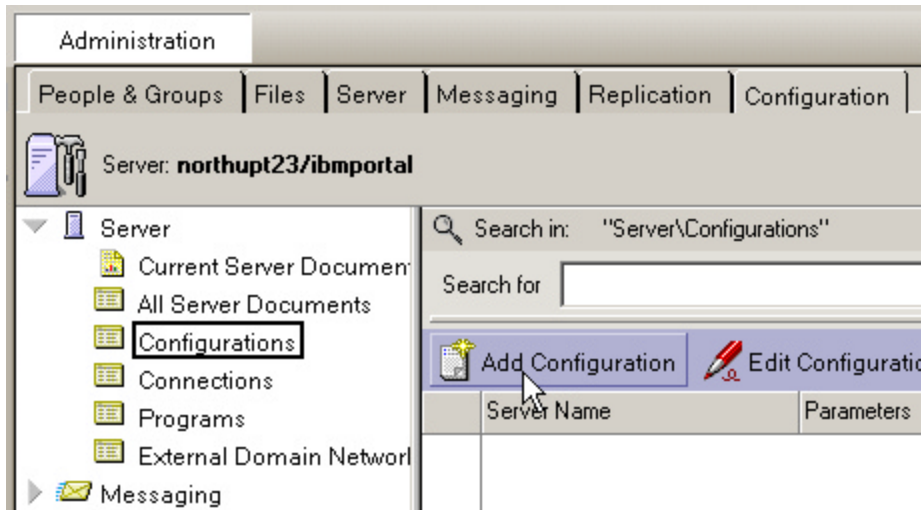


\_\_\_9.7 Do the same for wpsadmins, but set the User type to “person group”. Press OK.

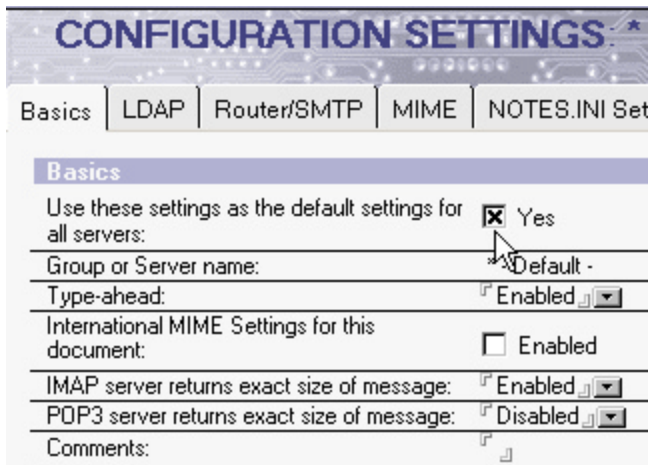


## 10 Configure LDAP Server Configuration

\_\_\_10.1 Go to Configuration – Server –Configurations. Add a Server configuration document.

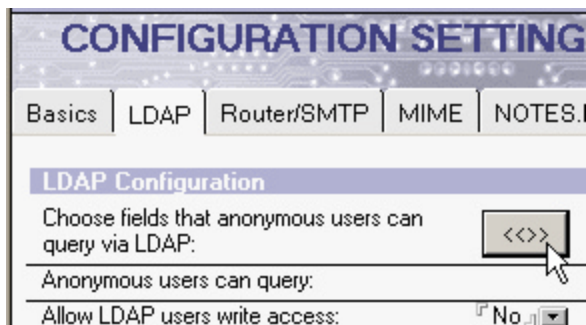


\_\_\_10.2 Check the box “Use the settings as the default settings for all servers”.

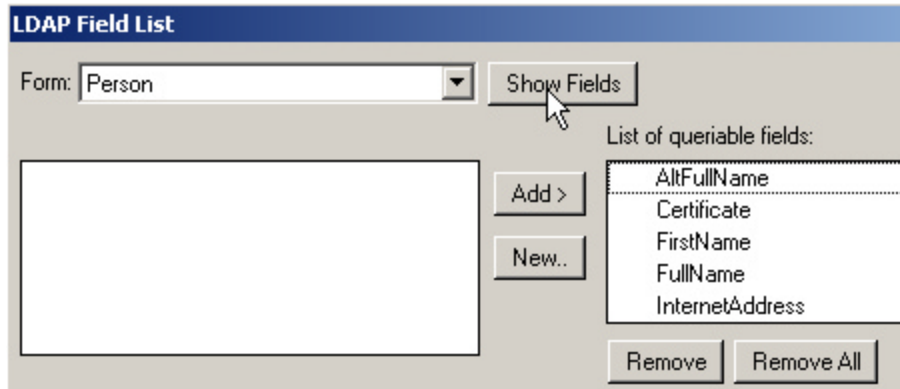


\_\_\_10.3 Go to the LDAP tab.

\_\_\_10.4 Press the icon called “Choose fields that anonymous users can query via LDAP”.

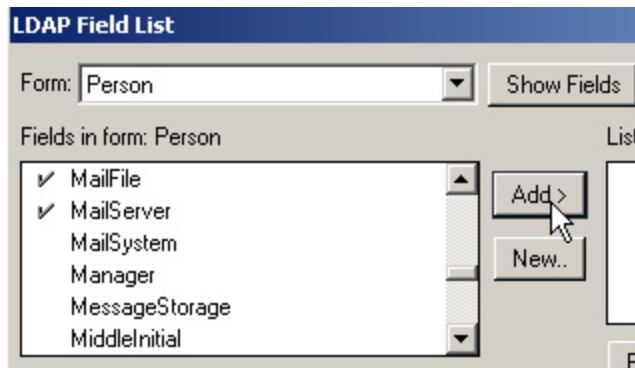


\_\_\_10.5 Press “Show Fields”.



The screenshot shows the 'LDAP Field List' dialog box with 'Form: Person' selected in the dropdown. The 'Show Fields' button is highlighted with a mouse cursor. Below the dropdown is a large empty rectangular box. To the right of this box are 'Add >' and 'New..' buttons. Further right is a list titled 'List of queryable fields:' containing 'AltFullName', 'Certificate', 'FirstName', 'FullName', and 'InternetAddress'. At the bottom right are 'Remove' and 'Remove All' buttons.

\_\_\_10.6 Add the Person fields: MailFile and MailServer



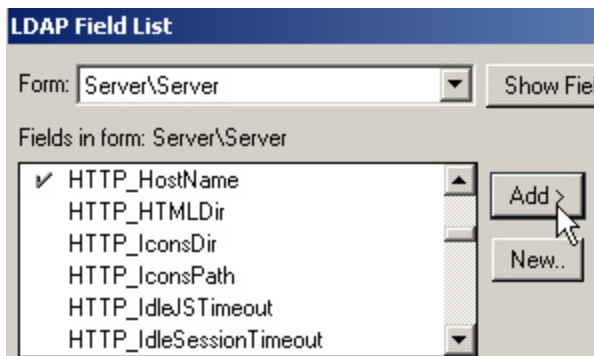
The screenshot shows the 'LDAP Field List' dialog box with 'Form: Person' selected. The 'Fields in form: Person' list on the left now contains 'MailFile' and 'MailServer' with checkmarks, along with 'MailSystem', 'Manager', 'MessageStorage', and 'MiddleInitial'. The 'Add >' button is highlighted with a mouse cursor.

\_\_\_10.7 Show Server/Server Fields.



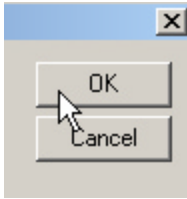
The screenshot shows the 'LDAP Field List' dialog box with 'Form: Server\Server' selected. The 'Show Fields' button is highlighted with a mouse cursor. The 'Fields in form: Server\Server' list is currently empty.

\_\_\_10.8 Add Server/server field: http\_HostName

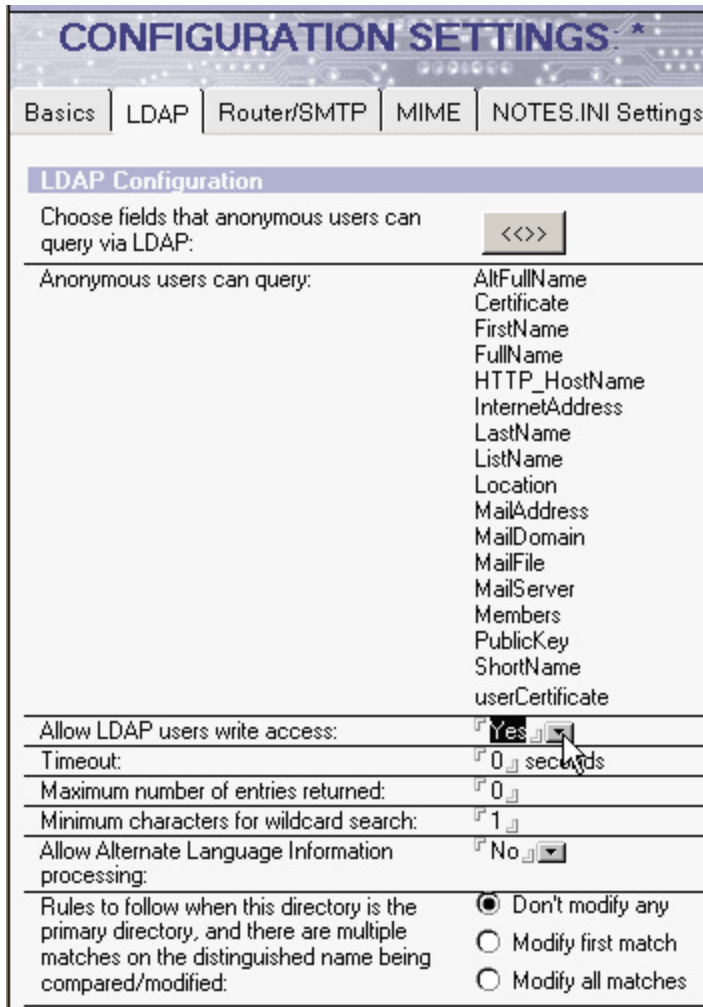


The screenshot shows the 'LDAP Field List' dialog box with 'Form: Server\Server' selected. The 'Fields in form: Server\Server' list on the left now contains 'HTTP\_HostName' with a checkmark, along with 'HTTP\_HTMLDir', 'HTTP\_IconsDir', 'HTTP\_IconsPath', 'HTTP\_IdleJSTimeout', and 'HTTP\_IdleSessionTimeout'. The 'Add >' button is highlighted with a mouse cursor.

\_\_\_10.9 Press OK to exit this panel.



\_\_\_ **10.10 Select “Yes” to allow LDAP users write access.**



**CONFIGURATION SETTINGS** ★

Basics | **LDAP** | Router/SMTP | MIME | NOTES.INI Settings

**LDAP Configuration**

Choose fields that anonymous users can query via LDAP: <<>>

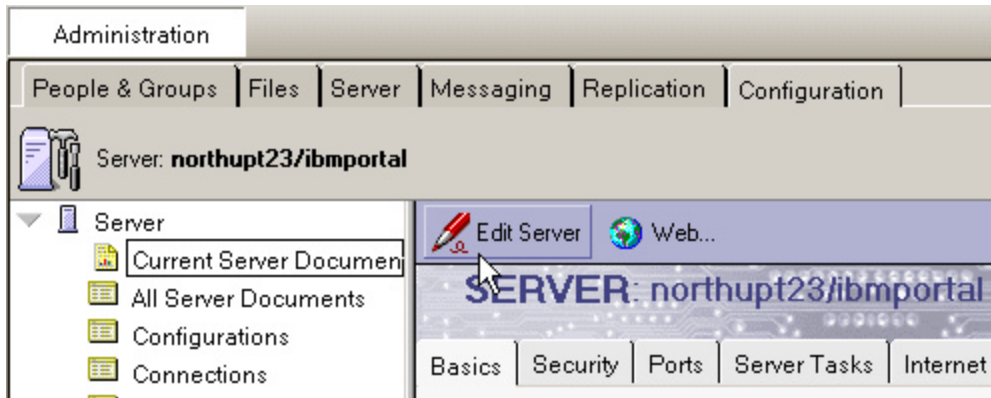
|   |  |
|---|--|
| Anonymous users can query:  | AltFullName<br>Certificate<br>FirstName<br>FullName<br>HTTP_HostName<br>InternetAddress<br>LastName<br>ListName<br>Location<br>MailAddress<br>MailDomain<br>MailFile<br>MailServer<br>Members<br>PublicKey<br>ShortName<br>userCertificate |
| Allow LDAP users write access:  | <input checked="" type="radio"/> Yes <input type="radio"/> No  |
| Timeout:  | <input type="text" value="0"/> seconds   |
| Maximum number of entries returned:   | <input type="text" value="0"/>   |
| Minimum characters for wildcard search:   | <input type="text" value="1"/>   |
| Allow Alternate Language Information processing:  | <input checked="" type="radio"/> No <input type="radio"/> Yes  |
| Rules to follow when this directory is the primary directory, and there are multiple matches on the distinguished name being compared/modified: | <input checked="" type="radio"/> Don't modify any<br><input type="radio"/> Modify first match<br><input type="radio"/> Modify all matches  |

\_\_\_ **10.11 Save and close.**

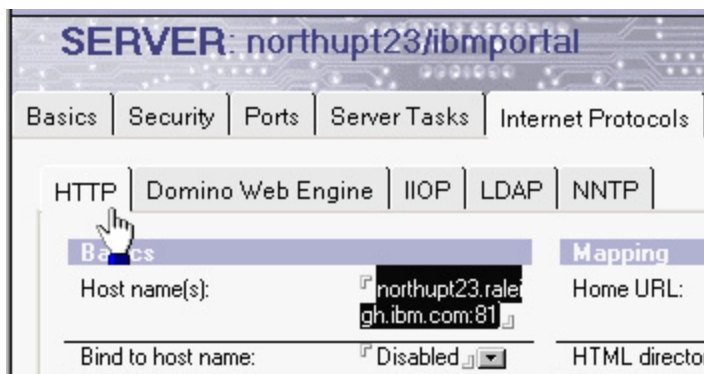
Your Domino LDAP server setup is complete.

## 11 Configure Multi-server authentication

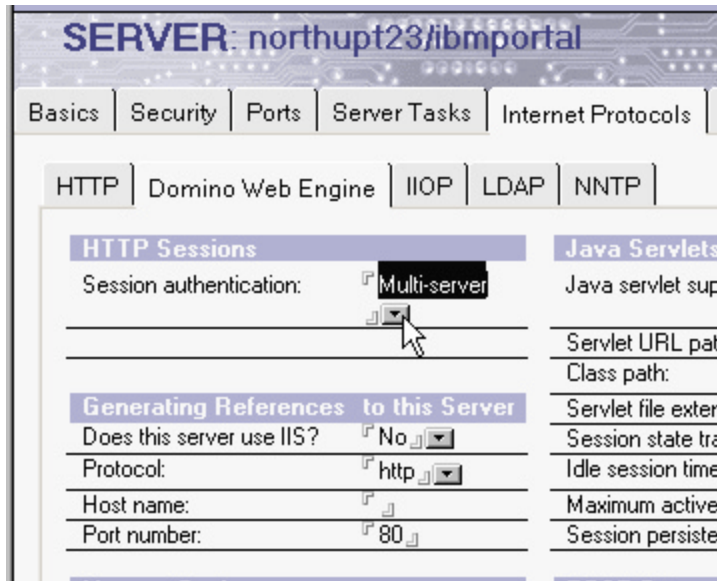
\_\_\_ **11.1 Go to Server – Current Server Documents. Edit the Server document.**



\_\_\_ **11.2 Go to the Internet Protocols tab, HTTP, Basics section. Enter your fully qualified host name with the port 81 as shown below.**



\_\_\_ **11.3 Go to the Domino Web Engine tab and set Session authentication to Multi-server. Leave the HTTP port number as 80. Press Save and Close.**

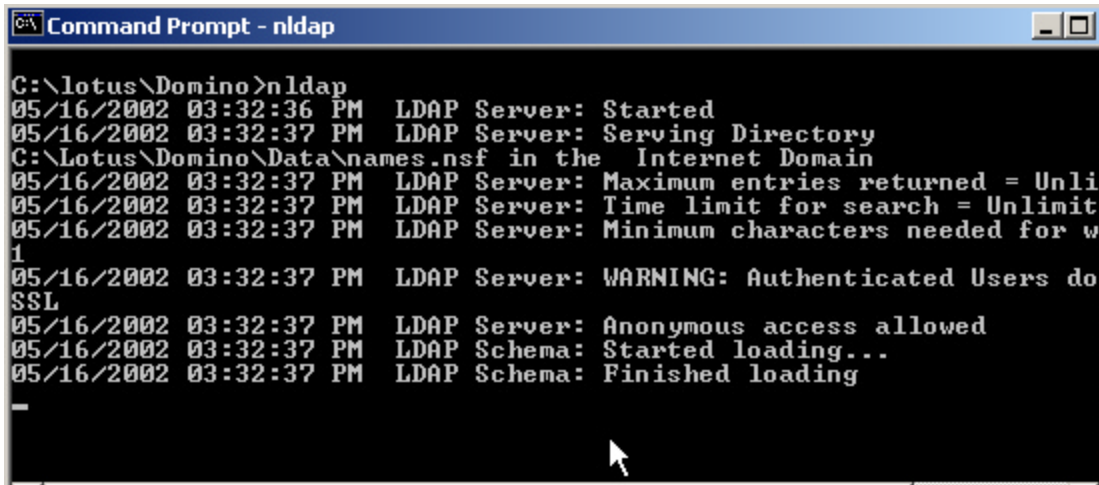


\_\_\_ **11.4 Close the Domino Administrator.**

## 12 Stop Domino and Restart LDAP

\_\_\_ 12.1 Stop the Domino Server service.

\_\_\_ 12.2 Run the command “nldap.exe” from the ...\\Domino folder. This starts the Domino LDAP server standalone without additional Domino tasks.



```
Command Prompt - nldap
C:\\lotus\\Domino>nldap
05/16/2002 03:32:36 PM LDAP Server: Started
05/16/2002 03:32:37 PM LDAP Server: Serving Directory
C:\\Lotus\\Domino\\Data\\names.nsf in the Internet Domain
05/16/2002 03:32:37 PM LDAP Server: Maximum entries returned = Unli
05/16/2002 03:32:37 PM LDAP Server: Time limit for search = Unlimit
05/16/2002 03:32:37 PM LDAP Server: Minimum characters needed for w
1
05/16/2002 03:32:37 PM LDAP Server: WARNING: Authenticated Users do
SSL
05/16/2002 03:32:37 PM LDAP Server: Anonymous access allowed
05/16/2002 03:32:37 PM LDAP Schema: Started loading...
05/16/2002 03:32:37 PM LDAP Schema: Finished loading
```

NOTE: There is no command to terminate this task.

\_\_\_ 12.3 Create a shortcut on your desktop to this nldap.exe program. You will use it often.

\_\_\_ 12.4 Use the task manager or the window’s X button to close nldap.

When installing WebSphere Portal, you will want to run the full Domino Server, so that the new Portal application server will not use any ports used also by Domino. After the portal install, you can run with nldap.exe to free memory.

END OF EXERCISE