Many Lotus customers use Lotus messaging and/or applications on Windows and manage Microsoft server/client environment via Microsoft Active Directory. There are two important business requirements in this architecture, centralised user management and one step login.

Centralised user management

In Lotus – Microsoft environment there are at least two directory, Microsoft Active Directory to manage Microsoft environment and Lotus Domino Directory to manage Lotus environment. Both of them handle users, groups and passwords. Without using any integration tools administration has to manage users in both environment (for exaple name change request, password request, password reset, etc.). It means additional cost and efforts.

Solutions:

Domino Active Directory sync: Customers with Lotus Domino/Notes licences are eligible to implement this tool without additional licence cost. It provides features&functions to manage users and groups in Microsoft Active Directory and sychronise them with Lotus Domino Directory (<u>setting up Domino Active Directory synchronisation</u>). Lotus Domino and Microsoft experts can implement this solution.

IBM <u>Tivoli Directory Integrator</u> **(TDI)**: The basic goal of data synchronization is to detect changes in one data source and then propagate these to one or more targets. Discovering and then applying changes is not as easy as you might think. Some systems provide change event notifications, most do not. Many maintain some sort of modifications list, but the level of detail available here varies greatly. A few systems allow you to incrementally modify the values of selected attributes. However, the majority require you to build a full data entry with all updates in place and then write this in a single operation. **TDI** gives you a framework for handling all issues at a comfortably abstract level.

TDI video tutorials found <u>here</u>: http://www.tdi-users.org/twiki/bin/view/Integrator/LearningTDI. *Customer has to have licence and Tivoli experts are required to implement this solution.*

One step login

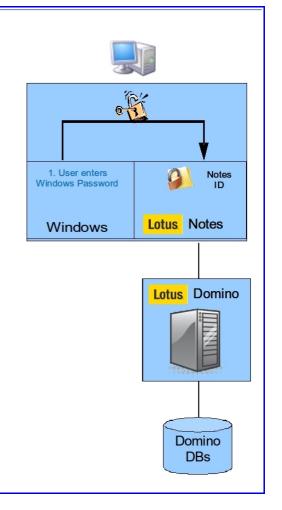
End users has to login to Windows first, then login to Lotus Notes client. If there are no policies and other restrictions, many users use different passwords. It is really hard to manage password related issues. Via policies, Lotus Domino provides password management tools like remote password change, password reset, password expiration, etc. but without integration administration has to manage all issues in Microsoft Active directory, too.

Lotus Domino **Shared Login** and **ID Vault** tools are built-in services (no additional charge) and solves most of the ID issues in MS Windows environment. With Shared login feature Microsoft Windows users do not need to login to Lotus Notes client anymore, without loosing the market leader security features. User names and passwords are being managed in Microsoft Active Directory. For example, MS administrators can reset end user password. ID Vault manages ID files on the end user's computer. It solves broken, lost ID issues. Lotus Domino administrators and MS AD administrators can implement Shared login and ID vault via Lotus Domino security policies (enable/disable feature) without going to every machine.

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How Notes Shared Login works

- Windows authentication used in place of Notes user name/password
 - User signs on in Windows
 - A complex "secret" is used to protect the ID instead of a password.
 - ▶ The secret is encrypted using a Windows security mechanism and saved locally on the user's computer
 - No Notes password is required to start Notes
 - No password synchronization required
- Unlocked Notes ID still manages Notes security from that PC
- Password changes are only required in Windows
- Policies are used to control the enabling of the feature



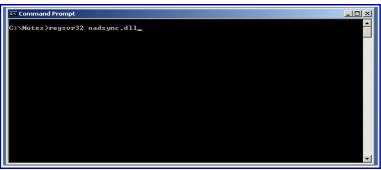
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Domino Active Directory synchronisation

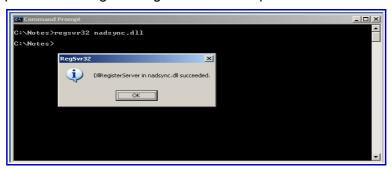
Install the Active Directory domain controller, the Domino server, and the Domino Administrator on separate computers to improve performance and enhance security. However, if necessary you may install the Domino server on the same computer as the Active Directory domain controller.

1. Open a command prompt. From your Notes install directory, type:

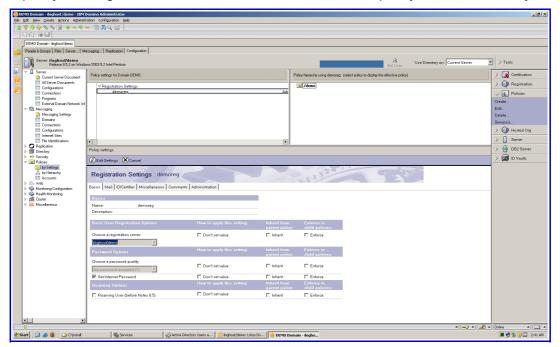
regsvr32 nadsync.dll



2. A message box appears indicating that registration is complete. This can take up to one minute.

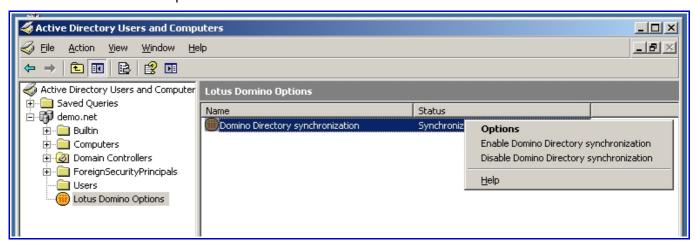


3. From the Domino Administrator, create an organizational policy or an explicit policy and a Registration policys settings document. You must have at least one policy to use with ADSync.

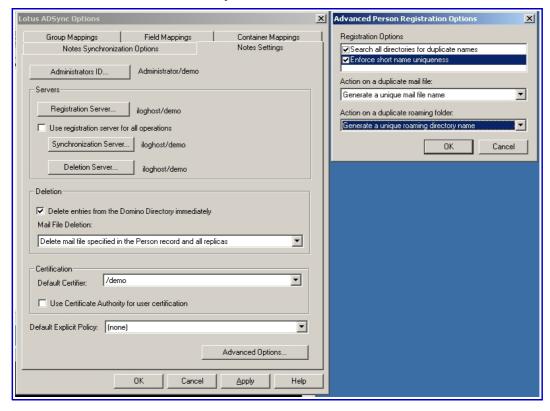


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4. From the Start menu, click Programs - Administrative Tools - Active Directory Users and Computers. Click the Lotus Domino Options folder.



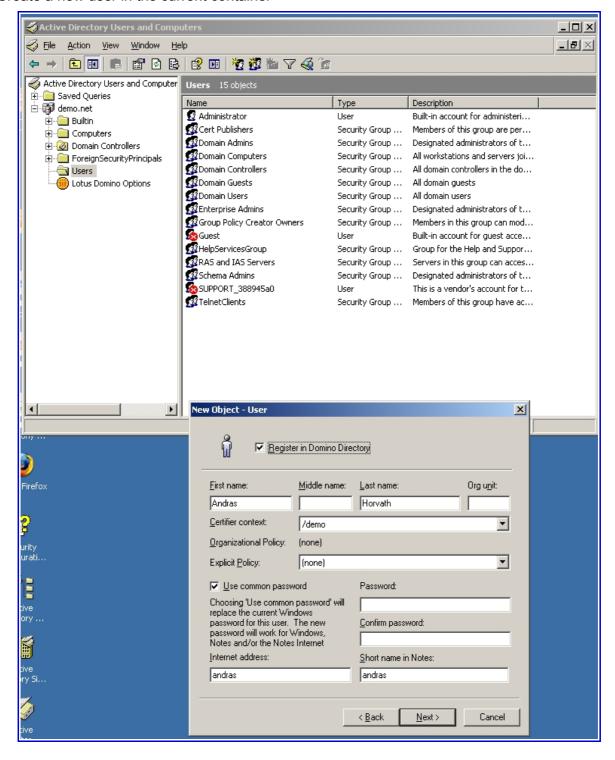
- 5. Right-click Domino Directory synchronization, and then choose Options.
- 6. Enter your Notes password.
- 7. Click the Notes Settings tab.
- 8. Click the Notes Server for Registration button and specify a registration server. This is typically the administration server of the Domino Directory.



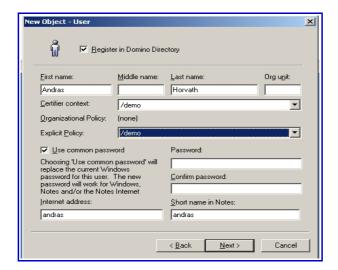
9. Click OK.

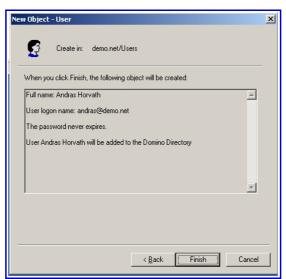
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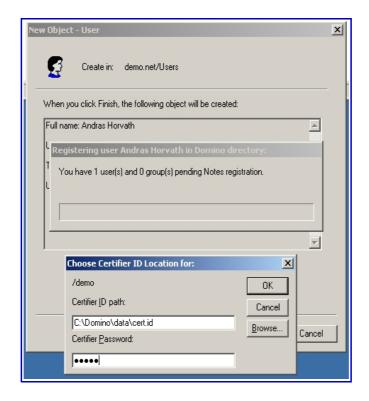
- 10. Close and restart Active Directory Users and Computers to allow these changes to take effect.
- 11. Register new user in Active Directory and synchronise it with Lotus Domino Directory
- 12. Create a new user in the current container



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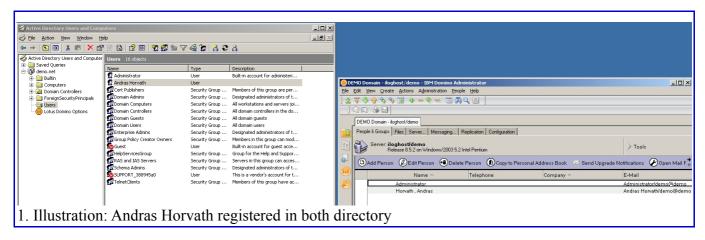






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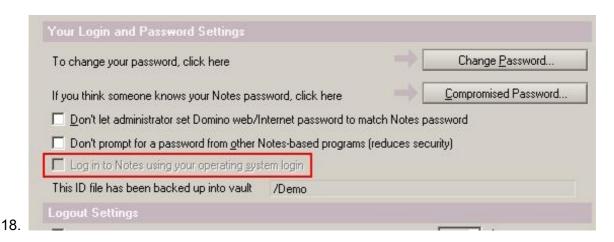
Lotus Shared login implementation

Notes shared login allows users to start Lotus Notes and use their Notes IDs without having to provide Notes passwords. Instead, they only need to log in to Microsoft Windows using their Windows passwords. This is not the same mechanism as Notes single login, a feature that was introduced in a previous version of Notes. Notes single login was a method of synchronizing the Windows and Notes passwords, Notes shared login removes the need for a Notes password altogether. Enabling an ID for Notes shared login alters it so the ID works only on the computer on which the feature is activated. This is because the feature relies on a Windows security infrastructure specific to that computer. With Notes shared login users only need to remember their Windows passwords and administrators are not required to manage Notes passwords or assist users who have forgotten their passwords because there are no longer Notes passwords to manage! Notes shared login works without interruption when Windows passwords are changed either by users or by administrators on a Windows domain controller.

Please study your production environment and consider all aspects before Shared login implementation (optionally discuss it with your Lotus Business Partner).

This guide is created in a demo environment, you have to use your own names and passwords.

- 13. Start Lotus Notes (if not already started)
- 14. Select or switch to Online Admin location
- 15. Enter password of "passw0rd"
- 16. Select File > Security > User Security from the menu
- 17. Enter password of "passw0rd" again.



- 19. Note the option to login to Notes using the operating system login is greyed out. This is because this feature is disabled by default.
- 20. Close the dialog and open the Domino Administrator client.
- 21. Switch to the **People & Groups** tab and select **Settings**

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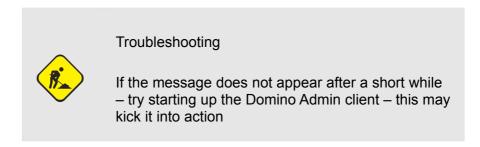
- 22. Open the **DemoVault** settings document. Since Notes ID vault and Notes Shared Login can work together we will configure them through the same policy.
- 23. Select the **Password Management** tab and then the **Notes Shared Login** tab.In this lab we are going to configure Notes Shared Login to be turned on by default and not allow the user to change this.
- 24. Select **Edit Settings** from the Action bar
- 25. Configure the tab as follows:

Enable Notes shared login with operating system	26. Yes
How to apply this setting	27. Set value whenever modified
Allow User Changes?	28. No
How to notify users when enabled	29. System dialog
How to notify users when disabled	30. System dialog

- 31. Click Save & Close in the action bar
- 32. Close both the Notes and Domino Administrator clients
- 33. Start Lotus Notes client.
- 34. Select **Online New User1** as the location document and enter "**newpassw0rd**" as password.
- 35. Within a minute you should get a message pop-up as follows.
- 36.



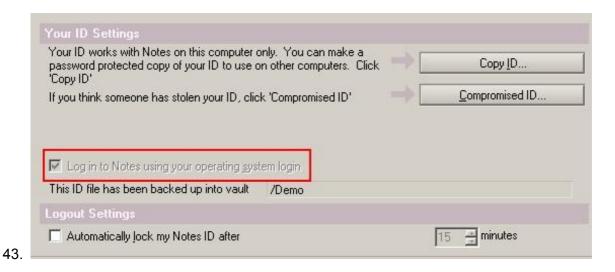
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- 38. Click **OK** to close the message.
- 39. Select File > Security > User Security from the menu



- 41. Notice that you are no longer prompted for your Notes password as you try to access a secured area of the client. Instead you are prompted for the operating system password of the Windows account with which you are logged in.
- 42. Enter the windows password for sadmin which is "passw0rd" and click Login

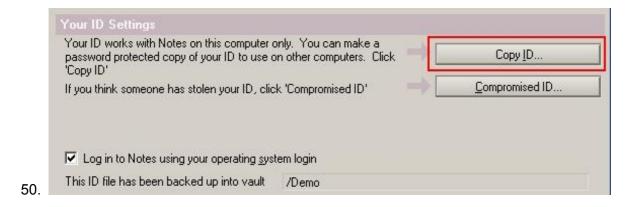


44. Notice that the options under Your ID Settings have changed. The option to login to Notes using the

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operating system login is now selected and not greyed out and the option for synchronizing your Notes password with your HTTP password and suppressing password prompts from other Notes-based programs are no longer displayed. Neither of these are compatible with Notes Shared Login as there is no longer a password associated with the Notes ID that you are now using with the Lotus Notes 8.5 client.

- 45. Restart the **Notes** client and notice that you are no longer prompted for a password.
- 46. Creating password-protected copy of ID
- 47. Once Notes Shared Login has been enabled, the ID cannot be copied via operating system mechanisms and used on another client. Enabling an ID for Notes shared login alters the ID so that it only works on the computer on which the feature was activated. This is because the feature relies on a Windows security infrastructure specific to that computer. In this step we will show how a user can create a copy of their ID for use on another client.
- 48. Select **File > Security > User Security** from the menu and enter the windows password "passw0rd".
- 49. Click on the Copy ID button.



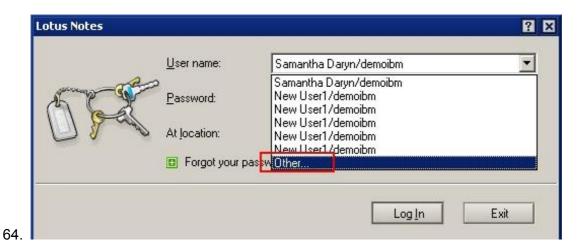
51. Save the new copy in the same directory as the original ID with the file name user-newcopy.id



- 53. Note that you are now prompted to set a password on this new copy to protect it during the transfer to another computer.
- 54. Click **OK** to close the message dialog
- 55. Set a password of "copypassw0rd" and click OK

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- 56. Click **OK** again on the dialog confirming the creation of the password protected ID
- 57. Click Close to close the User Security Settings dialog.
- 58. Because we no longer have a Notes login prompt we don't have the opportunity to select a location on Notes client start-up. To re-instate a prompt we have to switch to a new location and then shut down the Notes client.
- 59. Switch to the location Online Samantha
- 60. Enter "passw0rd" as the password and click Login.
- 61. Then close down the Notes client.
- 62. Restart Notes.
- 63. Leave the location selected as Online Samantha but click on the arrow next to the user identity and select "Other"



- 65. Navigate to the C:\Lotus\Notes\Data directory and select user-newcopy.id and click Open
- 66. Enter the password "copypassw0rd" and click Login. Note that although New User1 won't be directed to the correct mail file when using this location, we won't be using mail in this step and this anomaly should not matter.
- 67. After a short while you should see the message telling you that Notes Shared Login has been implemented for this new ID copy.
- 68. Before exiting the Notes client make sure that you switch back to the Online New User1 location.

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Lotus ID Vault implementation

The Notes ID vault is an optional, server-based database that holds protected copies of Notes user IDs. An ID vault allows administrators and users to easily manage Notes user IDs. Users are assigned to a vault through policy configuration, and copies of user IDs are uploaded to a vault automatically once the policy has taken effect. The Notes ID vault has the potential to replace time-consuming, expensive ID file and password recovery systems. Instead of administrators having to send out physical copies of ID files to new users, the ID files can be automatically downloaded from the vault when the user first logs into their Notes client. Administrators can provide instructions in the Notes login window for users who have forgotten their passwords, with either contact details or a link to a self-service password reset application If ID files are lost or damaged, users are not hindered because copies of the IDs can be immediately downloaded from the vault when users provide the correct passwords. In addition, tasks involving the ID file, such as ID file synchronization, ID renames, and ID key roll-overs, no longer require any user involvement and can automatically be handled by the ID vault, reducing complication and saving time. The "Auditor" function can be used to extract ID files for legal discovery or access to encrypted data, potentially preventing the loss of valuable information.

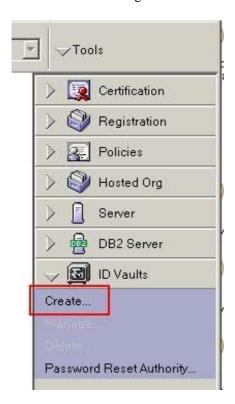
ID Vault creation

Please study your production environment and consider all aspects before Shared login implementation (optionally discuss it with your Lotus Business Partner).

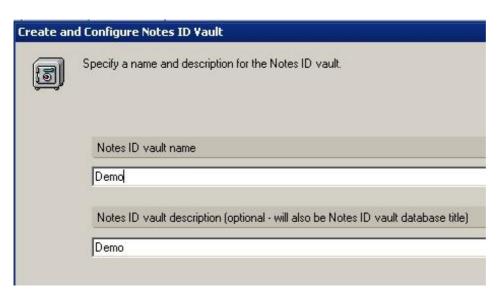
This guide is created in a demo environment, you have to use your own names and passwords.

- 1. Check that Domino server is up and running.
- 2. Start the Domino Admin client from the desktop icon.
- 3. Login as sadmin with password passw0rd.
- 4. Press Cancel when prompted to log on to instant messaging
- 5. Close the Welcome Screen
- 6. Switch to the Configuration tab
- 7. Select Create from the ID Vaults section in the Tools navigator

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- 8.
- 9. Click Next on the Create and Configure Notes ID Vault page
- 10. Enter "Demo" for the Notes ID Vault name and description and click Next



11.

12. Enter "passw0rd" as the Vault ID password and click Next

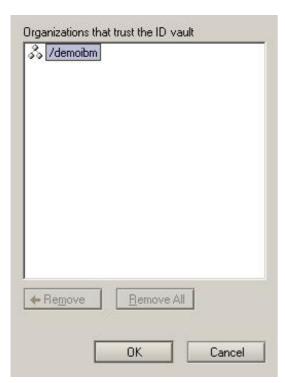
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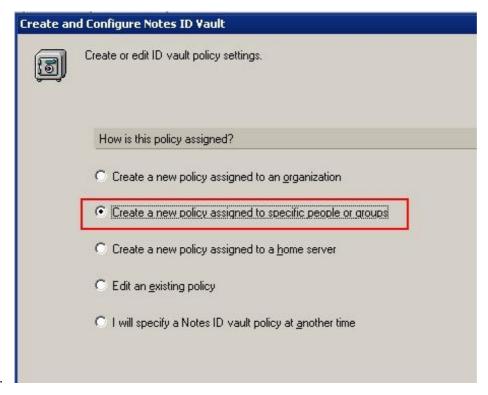
A vault ID will be created in the Notes client data directory location as indicated. This ID will be required for certain vault operations such as creating and removing vault replicas and should be secured in the same way as a certifier ID.

- 13. Accept Domino85/demoibm as the vault server this is the server on which the vault will be created and click "Next"
- 14. Accept sadmin/demoibm as the vault administrator this is the person who will have physical access to the vault, will be able to add or remove other vault administrators and delete IDs from the vault and click Next
- 15. On the Organizations dialog, click Add or Remove, select /demoibm only IDs certified with this certifier will be able to be uploaded to the vault and click Add and then OK and Next



- 16.
- 17. For the names that are authorized to reset passwords select sadmin and Natalie Olmos and click Add and then Next
- 18. For the policy assignment, select Create a new policy assigned to specific people or groups and click Next

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19.

20.

22. Note

21.

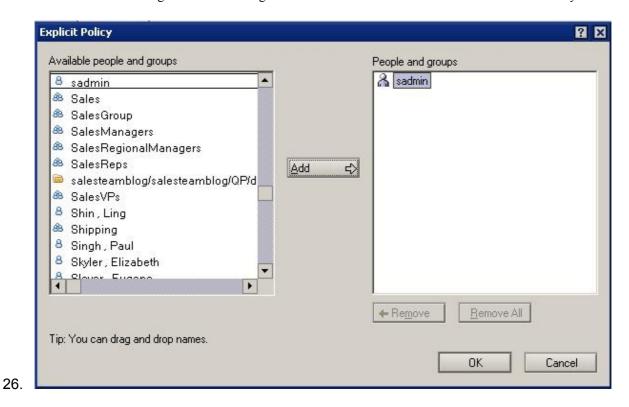


23. An efficient way to deploy the ID vault could be to create a new policy assigned to a home server. This will result in an auto-populated group being created which will keep its membership in sync with the set of users whose home server is selected. However, this involves waiting for server background processes to populate the group and to update certain hidden views in the Domino Directory. For the purposes of this lab it is easier if we work with individual users.

24.

25. On the "Select People" screen, click the Add or Remove button and select sadmin, click Add, OK and then Next

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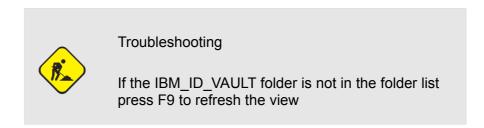
27. Add some text in the Forgotten Password Help Text dialog and click OK



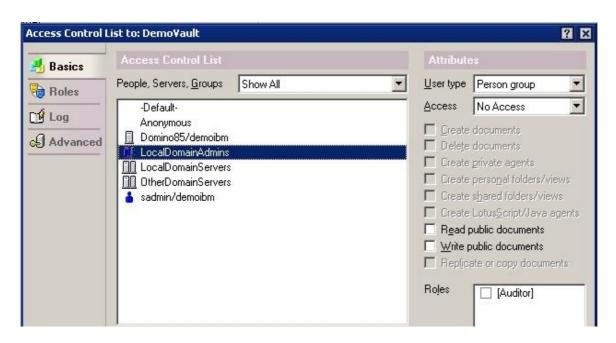
- 29. Verify your selections and select Create Vault
- 30. The vault creation process will begin and you will be prompted to enter the location of the certifier.
- 31. Click on the Certifier ID button and navigate to C:\Lotus\Notes\Data\IDs\cert\cert.id and click OK
- 32. When prompted enter "passw0rd" as the password
- 33. The vault should be created and a summary dialog displayed.
- 34. Click Done to close the dialogReview end result of ID Vault Creation
- 35. Switch to the Files tab in the Domino Administrator client

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36. Select the IBM_ID_VAULT folder. This view shows the database that has been created to store and manage the Notes Ids



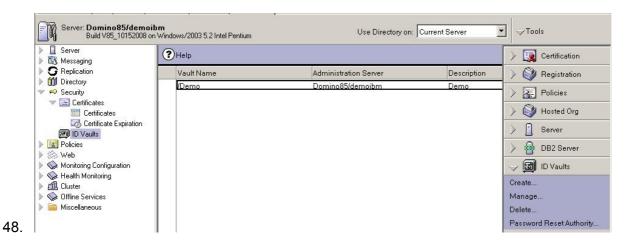
- 37. Open the Demo database and look at the three views
- 38. The Vault Users view should be empty this is because no IDs have yet been uploaded to the vault.
- 39. The Vault Servers view shows us the single server on which we have deployed the vault. If we were to create replicas of the vault on other servers, those servers would then be listed here.
- 40. The Inactive User Ids view should also be empty this view would show us any IDs that were stored in the vault but were no longer in use within our environment for example those for users who have left the organization.
- 41. Open the ACL of the vault database. (File menu -> Application -> Access Control)



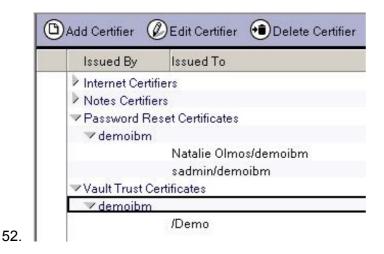
42. Notice that the only IDs who have any access to the server are the vault administrator and the server on which the vault is deployed. All other entries in the ACL are set to have No Access. Notice also the Auditor role. This has not been assigned to any ID yet. We will be looking at this feature later in the lab so to save having to come back later, we will enable it now.

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- 43. Highlight sadmin/demoibm in the ACL and click on the Auditor role.
- 44. Click on OK and then close the Demo vault database.
- 45. Switch to the Configuration tab.
- 46. Expand the Security section of the navigator to see a new section here for ID Vaults.
- 47. Click on ID Vaults to see the directory entry for the ID Vault that we just created.



- 49. Notice that the ID Vaults Manage and Delete tools now become available in the Tools navigator. The vault administrator can use these tools to amend the configuration of the ID vault or remove it from the domain.
- 50. Expand the Certificates section and click on the Certificates view. Collapse everything, either with the menu selection, the toolbar button, or the "Shift-" keyboard shortcut.
- 51. Expand the Password Reset Certificates and Vault Trust Certificates sections.

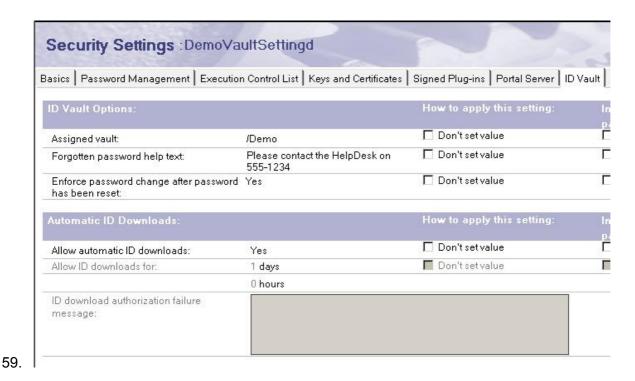


53.

54. These are the certificates that were created during the vault deployment process

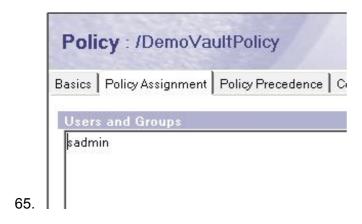
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- 55. Notice that there are two password reset certificates one for Natalie Olmos and one for sadmin. The Password Reset Certificates show that these two users are certified to reset passwords for IDs that have been certified by /demoibm
- 56. Notice that there is a single vault trust certificate between /demoibm and /Demo. This shows that the Demo vault is certified to store IDs that have been certified by /demoibm
- 57. Switch to the People & Groups tab, click on Settings in the navigator
- 58. Open the DemoVaultSetting Security Settings document and click on the ID Vault tab. This is the policy security setting that was created during the Vault deployment process.



- 60. Notice that by default "Allow automatic ID downloads" is set to Yes. This means that a user can download the ID as many times as they need after initial registration, a password reset or an ID recovery action. If this field is set to "No", administrators can restrict the number of times an ID can be downloaded and for how long the ID is available for download. Notice also that, by default, the user will be prompted to change their password after a password has been reset.
- 61. Close the Settings document.
- 62. Still in the People & Groups tab, click on Policies in the navigator.
- 63. Open the DemoVaultPolicy. This is the policy that was created during the Vault deployment notice that this is set to use the DemoVaultSetting security setting. Notice also the new Policy Assignment tab. In Domino 8.5, users and groups can be assigned to explicit policies (instead of explicit policies being individually assigned to users through the person document).
- 64. Click on the Policy Assignment tab and you should see the entry for sadmin.

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- 66.
- 67. Process for existing user
- 68. To break out the information into a third-level heading and subsection, use this format. This workshop template uses a Step List style with underscore to provide a checklist appearance.
- 69. Close down any Notes or Domino Administrator client that you currently have open.
- 70. Launch the Notes 8.5 client and select Online Admin as the location.
- 71. Enter the password "passw0rd" and click Login
- 72. Watch the status bar and you should see the message indicating that the Notes configuration has been refreshed.

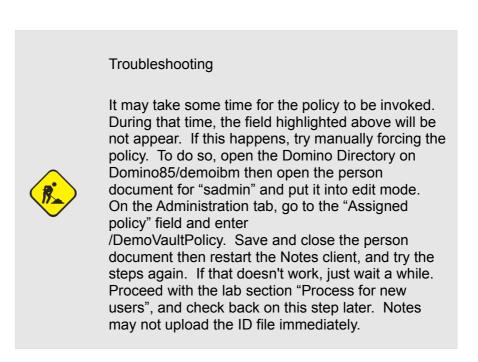


- 73.
- 74. Select File > Security > User Security from the menu
- 75. Enter the password "passw0rd" again
- 76. In the Your Login and Password Settings section you should see the message indicating that the ID has been backed up into the vault.

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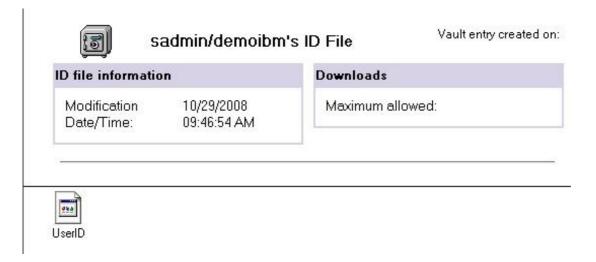


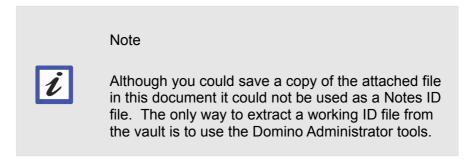
77.



- 78. Click OK to close the dialog and launch the Domino Administrator client from the Open menu
- 79. From the Files tab, select the IBM_ID_VAULT folder and open the Demo database.
- 80. You should see a single record in the Vault Users view indicating that sadmin's ID has been uploaded into the vault.
- 81. Open the record to see the entry along with the encrypted ID file.

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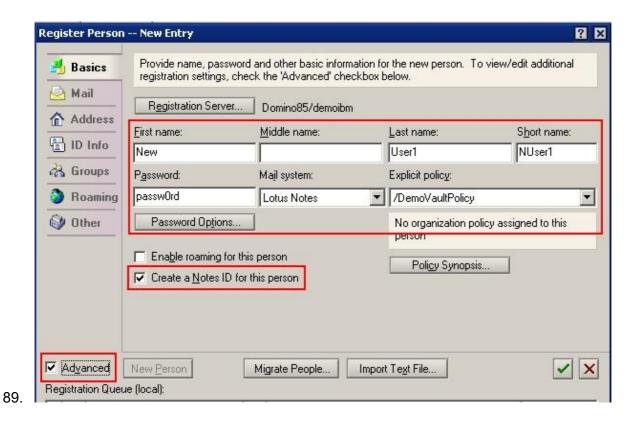


- 82. Process for new users
- 83. For supporting sections, use this format. Replace the heading above with your own title, and then add an introduction. If you need to add steps, copy and paste the step list below.
- 84. Make sure that you are logged into the Domino Administrator with the sadmin ID and switch to the Configuration tab
- 85. Select Registration > Person from the Tools menu
- 86. You should be prompted for the password for the /demoibm certifier. Enter "passw0rd" as the password and click OK
- 87. Enter the details for a new user as follows:

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First Name	New
Last Name	User1
Password	passw0rd
Explicit Policy	/DemoVaultPolicy
Create Notes ID for this person	Checked

88. Check the Advanced checkbox so that the other options are displayed.



90. Click on the ID Info tab and make sure that "In Domino Directory" and "In file" are not checked as locations for storing the user ID.

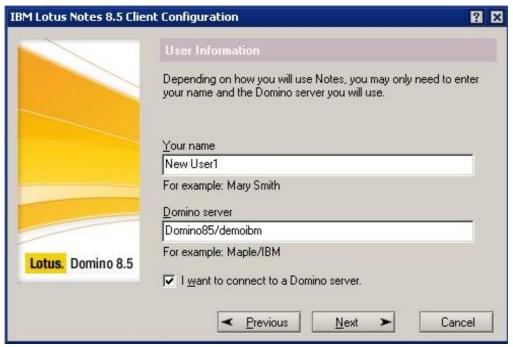
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☐ In Don	nino director <u>y</u>	
☐ In file:	Set ID File	C:\Lotus\Notes\Data\ids\people\nuser1.id
┌ In <u>m</u> ail	file	
☐ In pers	onal address book	ķ.
☑ In Note	es ID vault - /Dem	0

91

- 92. Notice that, as a result of selecting the DemoVault policy, the location "In Notes ID vault" has been automatically selected and cannot be deselected.
- 93. Click the green tick in the bottom right corner to add New User1 to the registration queue.
- 94. Return to the Basics tab and perform the same steps to create a second user "New User2"
- 95. Select Register All to register the users and create the mail files and Notes IDs
- 96. Click OK to the "People registered successfully prompt" and then Done to close the dialog box.
- 97. Switch to the Files tab and open the Demo Vault again (IBM_ID_VAULT\demo.nsf). You should see the new entries for New User1 and New User2 with their encrypted IDs attached. Your admin ID might be here by now. If it is, go back up and complete that step, then come back here.
- 98. In order to see what happens when a new client is configured, we will need to simulate a new client installation. Close down any Notes or Administrator client that you currently have open.
- 99. Double-click on the Domino85 Computer icon on the desktop and navigate to the C:\Lotus\Notes directory.
- 100. Locate the notes.ini file and open it with notepad.
- 101. Delete all the lines below InstallType=2 but make sure that you leave the cursor on the line below the last line of text when you save the document.
- 102. Then navigate to the C:\Lotus\Notes\Data directory and rename the names.nsf file to names-old.nsf Don't delete the original file as we will re-instate this later.
- 103. Start the Lotus Notes client and you will see the Lotus Notes 8.5 Client Configuration dialog you would expect if you were starting an unconfigured client for the first time.
- 104. Click Next on the first page
- 105. Enter "New User1" for Your name and "Domino85/demoibm" for the Domino server and click Next

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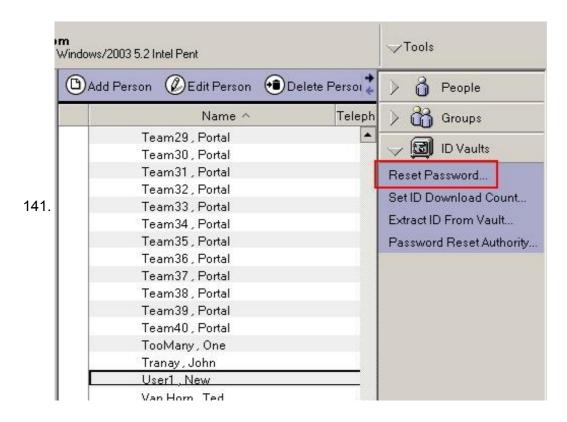
- 106.
- 107. You should then be prompted for the user's password. Since the ID file has not been saved anywhere except in the ID vault, the configuration process must be communicating with the ID vault.
- 108. Enter "passw0rd" for the password and click Login
- 109. Click Next on the Additional Services dialog and the client should start up.
- 110. Select File > Security > User Security from the menu and enter the password again and you should see the dialog indicating that you are using an ID that has been backed up into the vault.
- 111. Re-instate original NAMES.NSF
- 112. Before we go any further we will re-instate the original NAMES.NSF as this contains location documents for our users which match their user IDs with their mail files and ensure that, as we switch user identities, we pick up all the correct user settings.
- 113. Close down any Notes or Domino Administrator client that you currently have open.
- 114. Double-click on the Domino85 Computer icon on the desktop and navigate to the C:\Lotus\Notes\Data directory
- 115. Rename the names.nsf file to names-new.nsf
- 116. Rename names-old.nsf to names.nsf
- 117. Restart the Notes client
- 118. Select Online Admin location document.

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- 119. Enter password "passw0rd"
- 120. We will create a new location document for New User1 to make it easy to switch to the appropriate Notes settings.
- 121. Select File > Preferences from the menu
- 122. Click on Locations
- 123. Highlight the Online-Admin location and click Copy
- 124. Edit the copied location document
- 125. On the Basics tab, change the location name to "Online New User1"
- 126. On the Basics tab, change the Internet mail address to "nuser1@demoibm.com"
- 127. On the Mail tab, change the mail file to "mail\nuser1.nsf"
- 128. On the Advanced tab, change the user ID to "C:\Lotus\Notes\Data\user.id"
- 129. Click OK to save the changes
- 130. Switch to the Online New User1 location and log in to test it.
- 131. User forgets password
- 132. In this step we will review what happens when a user forgets their password. For the purposes of this exercise we will imagine that New User1 has forgotten their password and rings the HelpDesk to get the password reset. Remember that we gave Natalie Olmos the rights to reset passwords during the vault creation process. In this step Natalie, will reset the password for New User1
- 133. Close down any Notes and Domino administrator client that you currently have open.
- 134. Start Lotus Notes and select Online New User as the location.
- 135. Click on the "Forgot your password" link.
- 136. Notice that the text shown is the text we entered as the help text during the vault configuration process.
- 137. Switch to the Online Natalie location and login with password "passw0rd"
- 138. Open the Domino Administrator client from the Open menu
- 139. Close the Welcome page

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140. Click on the People & Groups tab and then the People viewNavigate to New User1's person document and with the document highlighted in the view select ID Vaults > Reset Password from the Tools navigator on the right side of the screen.



142. In the Reset User's Password dialog, enter a new password eg: "resetPassw0rd1" and click the Reset Password button.



- 144. When you receive a message indicating that the password has been successfully reset, click OK.
- 145. Close the Domino Administrator client and the Notes client.

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- 146. Now let's login as New User1 again. Launch the Notes client and select the Online New User1 location.
- 147. Enter the new password "resetPassw0rd1". As specified in the policy, because the password has been reset, you are now prompted to change the password to one of your own choosing.
- 148. Change the password back to "passw0rd"
- 149. User changes password
- 150. In this step we will review what happens when a user changes their password on one copy of their ID. First we will create a separate copy of New User1's ID to simulate the use of the Notes client on a second computer. Then we will change the password on one copy of the ID and observe what happens when we switch to the other copy of the ID.
- 151. Close down any Notes or Domino Administrator client that you currently have open.
- 152. Double-click on the Domino85 Computer icon on the desktop and navigate to the C:\Lotus\Notes\Data directory
- 153. Locate the file user.id
- 154. Create a copy of the file and name it user1.id
- 155. Start the Lotus Notes 8.5 client
- 156. Select the Online New User1 location
- 157. Enter the password "passw0rd" and click Login
- 158. Select File > Security > User Security from the menu and enter the password again.
- 159. Click on the Change Password button.
- 160. Enter the current password again ("passw0rd") and click Login
- 161. Enter a new password eg: "newpassw0rd" and click OK
- 162. Click OK on the "Your password change succeeded" dialog and click OK to close the User Security dialog. As part of the password change process, the changed password information has been synchronized with the ID vault record.
- 163. Select File > Security > Switch ID
- 164. Navigate to C:\Lotus\Notes\Data select user1.id and click Open
- 165. Enter "newpassw0rd" as the password and click Login. Notice that you are able to login with your

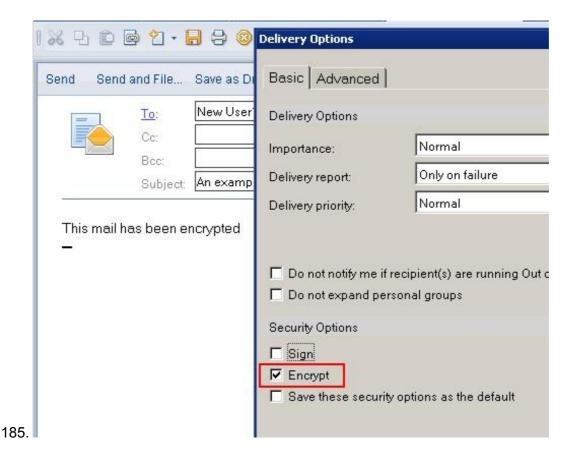
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new password even though you did not change the password on this copy of the ID file.

- 166. Select File > Security > Switch ID again and switch back to the original user.id file.
- 167. ID becomes corrupted or lost
- 168. In this step we will review how recovery from a corrupted ID can be achieved. In the case of corruption, the affected user ID would need to be deleted from the data directory so that a new ID could be downloaded.
- 169. Shut down any Notes or Domino Administrator clients that are currently open.
- 170. Double-click on the Domino85 Computer icon on the desktop and navigate to the C:\Lotus\Notes\Data directory and delete any user ID files user.id, user1.id, user-old.id, that are here. Do NOT delete any ID files that are in subdirectories of the Data directory.
- 171. Restart the Notes client
- 172. Select the Online New User1 location and enter "newpassw0rd" as the password.
- 173. Even though there was no user ID present you were seamlessly logged into Notes because the correct password was entered allowing a new copy of the ID to be downloaded to your client from the vault.
- 174. Check the C:\Lotus\Notes\Data directory and you will see a new copy of the user ID has been created.
- 175. Auditor feature
- 176. In this step we will review how an auditor can be configured to get access to a user's ID without their co-operation or knowledge. In order to perform this, a user must both be a vault administrator and have the Auditor role configured in the ACL. When we were reviewing the ID Vault configuration, we assigned the Auditor role to sadmin. In this step we will use sadmin's ID to download a copy of New User1's ID and use it to login to Notes where sadmin would then be able to access any data encrypted by or for New User1. To show this we will first send some encrypted mail to New User1.
- 177. From the bottom right corner of the client, select the Online Natalie location.
- 178. Enter "passw0rd" as the password and click Login
- 179. Open Natalie's mail file from the Open menu
- 180. Select New Mail and complete as follows
- 181. Enter "New User1" in the To: field
- 182. Enter "An example of encrypted mail" as the Subject

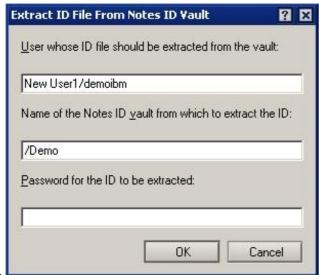
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- 183. Enter "This mail has been encrypted"
- 184. Click on "Delivery Options" in the Action bar, check the Encrypt check box under Security Options and click OK.



- 186. Send the email.
- 187. From the bottom right corner of the client, select the Online Admin location and enter the password "passw0rd"
- 188. Open the Domino Administrator client from the Open menu.
- 189. Switch to the People & Groups tab and click on the People view.
- 190. Highlight the person entry for New User1
- 191. From the Tools navigator, select Extract ID from Vault from the ID Vaults section.

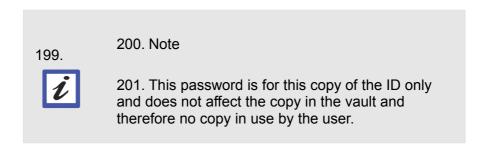
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192.

- 193. If the ID was being extracted so that a physical copy can be given to the user, and the vault administrator performing the task did not have the Auditor role, the current password for the ID would have to be supplied here. This means that either the user would have to have given the administrator the current password or the administrator would have had to have reset the password to something that he/she would then know. In either of these cases, the user would be aware an activity had been performed against their ID.
- 194. As sadmin has the Auditor role, a password does not need to be supplied in this dialog.
- 195. Click OK without supplying a password.
- 196. Enter user-audit.id as the file name and click Save
- 197. The administrator is then prompted to supply a new password for the new ID copy.

198.



202.

- 203. Enter a new password of "auditpassw0rd" and click OK
- 204. First let's prove that although the administrator has access to New User1's mail file (LocalDomainAdmins have Manager access to all mail files) the ID is not able to read the encrypted mail that was sent from Natalie.
- 205. Switch to the Files tab

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- 206. Open the file mail\nuser1.nsf
- 207. Open the email sent from Natalie.

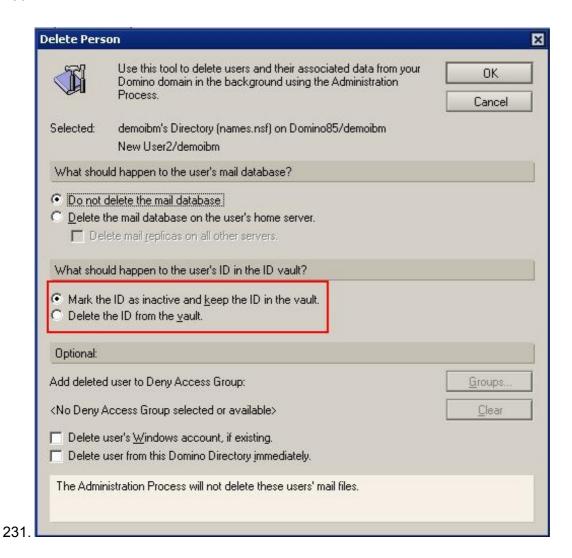


- 209. You should see the message indicating that the document is encrypted and not intended for you.
- 210. Click OK. Notice that the email opens but you are not able to read the contents.
- 211. Close New User1's mail file
- 212. Close the Domino Administrator client.
- 213. Select File > Security > Switch ID from the menu
- 214. Navigate to the C:\Lotus\Notes\Data directory and select user-audit.id
- 215. Enter the password "auditpassw0rd"
- 216. Select File > Open > Lotus Notes Application
- 217. Select Domino85/demoibm as the server
- 218. Navigate to the New User1 mail file in the mail directory.
- 219. Open the mail file and the encrypted document. Note that you can now see the contents of the mail message.
- 220. Select the Online New User1 location.
- 221. Login with New User1's password "newpassw0rd" and notice that this is still valid and does not require changing.
- 222. If you open New User1's mail file you will notice that the encrypted mail message now shows as having been read. In a real audit scenario, it is more likely that a copy of the required application would be made so that any action by the auditor would not be visible to the users.
- 223. User leaves the organization
- 224. In this step we will show what can happen in the situation where a user leaves the organization but their ID needs to be securely retained for audit or information retrieval purposes. We need to use our New User1 identity in the next exercise so in this step we will remove the account of New User2.

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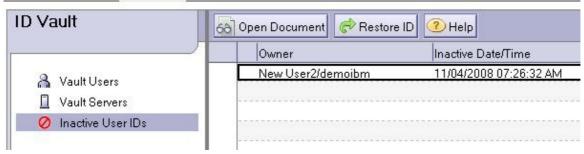
- 225. Switch to the Online Admin location.
- 226. Open the Domino Administrator client.
- 227. Select the People & Groups tab and then the People view
- 228. Locate New User2's person record
- 229. From the Tools navigator, select Delete from the People section.

230.



- 232. Note the option to mark the ID as inactive but keep in the vault.
- 233. Leave all the settings as default and click OK.
- 234. Switch to the Files tab and open the Demo vault database. Notice that the New User2's record is no longer in the Vault Users view.
- 235. Click on the Inactive User IDs view and you should see the New User1's ID record.

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- 236.
- 237. Audit trails and logs
- 238. In this step we look at how the various actions on the vault and the IDs within it are recorded.
- 239. Switch to the Files tab and open Domino85's log (log.nsf)
- 240. Click on the Security Events view
- 241. Open the document(s) in this view

```
11/04/2008 06:35:49 AM ID Vault 'O=Demo' on server 'CN=Domino85/O=demoibm' successfully created by 'sadmin/demoibm' (IP address 192.168.52.131:1049).
11/04/2008 06:37:38 AM Unable to find ID for 'sadmin/demoibm' in vault 'O=Demo'. Error. Entry not found in index
11/04/2008 06:37:38 AM ID failed to authenticate in vault 'O=Demo'. Sadmin/demoibm' (IP Address 192.168.52.131:1059) made request. Error. Entry not found in index
11/04/2008 06:37:42 AM ID successfully synchronized with vault 'O=Demo' for 'sadmin/demoibm' (IP Address 192.168.52.131:1062).
11/04/2008 06:48:45 AM ID successfully synchronized with vault 'O=Demo' for 'New User1/demoibm' (IP Address 192.168.52.131:1080).
11/04/2008 06:49:33 AM ID successfully synchronized with vault 'O=Demo' for 'New User1/demoibm' (IP Address 192.168.52.131:1084).
11/04/2008 06:52:33 AM ID successfully downloaded from vault 'O=Demo' for 'New User1/demoibm' (IP Address 192.168.52.131:105).
11/04/2008 07:02:34 AM ID successfully synchronized with vault 'O=Demo' for 'New User1/demoibm' (IP Address 192.168.52.131:1121).
11/04/2008 07:02:32 AM ID successfully synchronized with vault 'O=Demo' for 'New User1/demoibm' (IP Address 192.168.52.131:1121).
11/04/2008 07:02:32 AM ID successfully synchronized with vault 'O=Demo' for 'New User1/demoibm' (IP Address 192.168.52.131:1124).
11/04/2008 07:02:32 AM ID successfully synchronized with vault 'O=Demo' for 'New User1/demoibm' (IP Address 192.168.52.131:1151) from process nSERVER.
11/04/2008 07:03:04 AM ID successfully synchronized with vault 'O=Demo' for 'New User1/demoibm' (IP Address 192.168.52.131:1161).
11/04/2008 07:03:04 AM ID successfully synchronized with vault 'O=Demo' for 'New User1/demoibm' (IP Address 192.168.52.131:1161).
11/04/2008 07:03:04 AM ID successfully synchronized with vault 'O=Demo' for 'New User1/demoibm' (IP Address 192.168.52.131:1161).
11/04/2008 07:03:04 AM ID successfully synchronized with vault 'O=Demo' for 'New User1/demoibm' (IP Address 192.168.52.131:1163).
11/04/2008 07:03:04 AM ID successfully synchr
```

- 242.
- 243. You should be able to see all the key vault associated activities including
- 244. Vault Creation
- 245. Upload of ID to the vault (note that this activity is not well recorded yet where you see an "Unable to find ID... Error: Entry not found in index" message directly before an "ID successfully synchronized with vault" message for the same user, this is an indication that the ID has been uploaded. Log entries for this activity will be improved in the next release.)
- 246. Download of ID from the vault
- 247. Password change (recorded as ID synchronization)
- 248. Password reset
- 249. Auditor download of ID from the vault

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