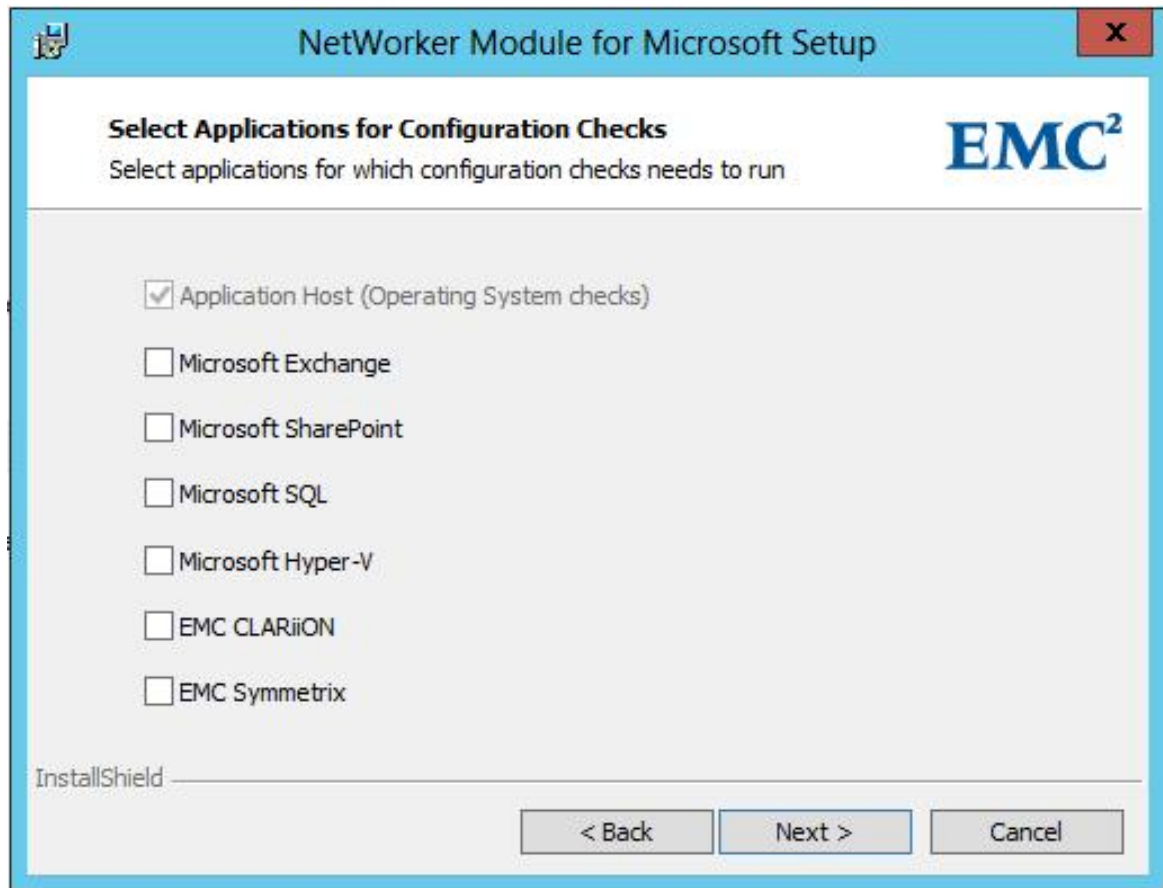


NetWorker Module for Microsoft : How to Configure Active Directory Backup - Restore using GLR

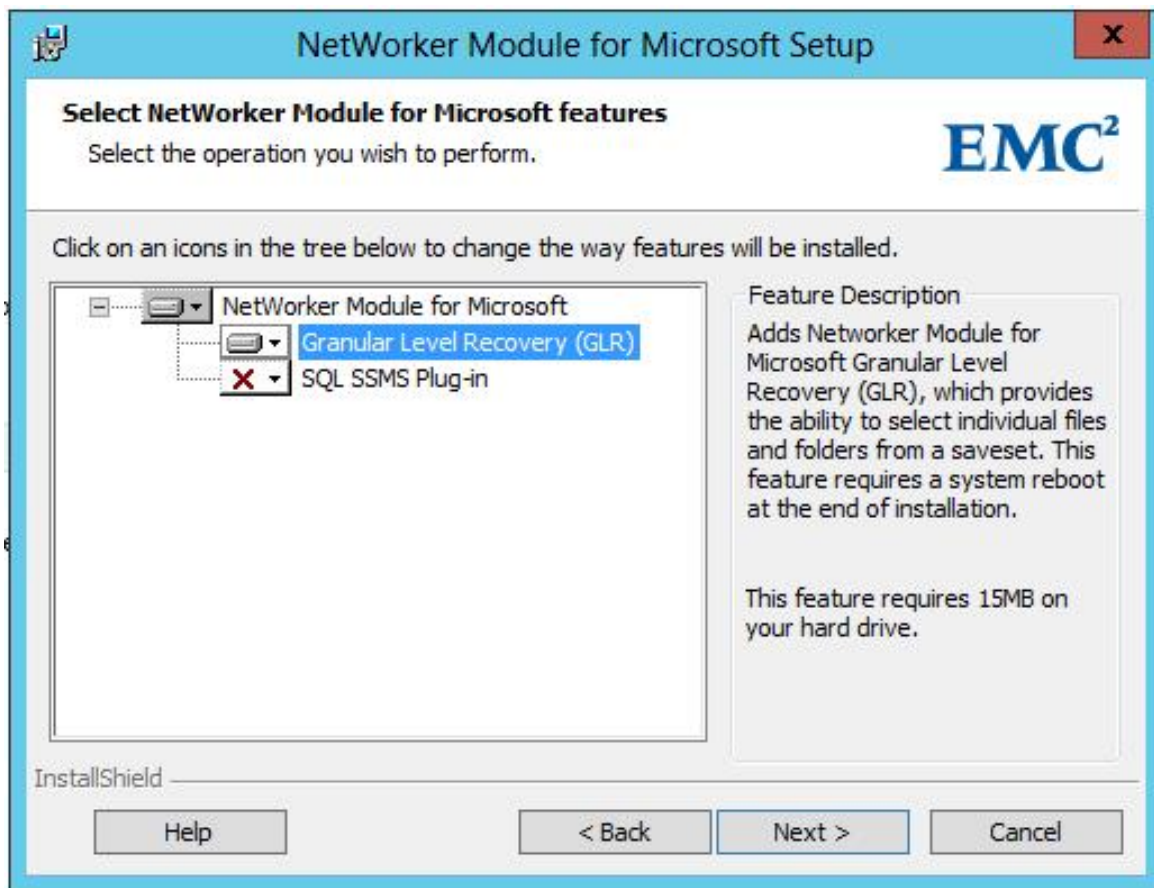
How to Configure Active Directory Backup

First Check if the Active Directory Server and NetWorker Server is able to communicate each other bi-directionally using ping & nslookup, provided they are not having firewall between. If there are firewall in between then required ports needs to be open.

1. Install the NetWorker Client Software in the Client (Client : Active Directory Server)
2. Install NMM in the Client, do not required to check and Application while running the config checker before installing NMM.



3. Add GLR Option while asked during next step of installation



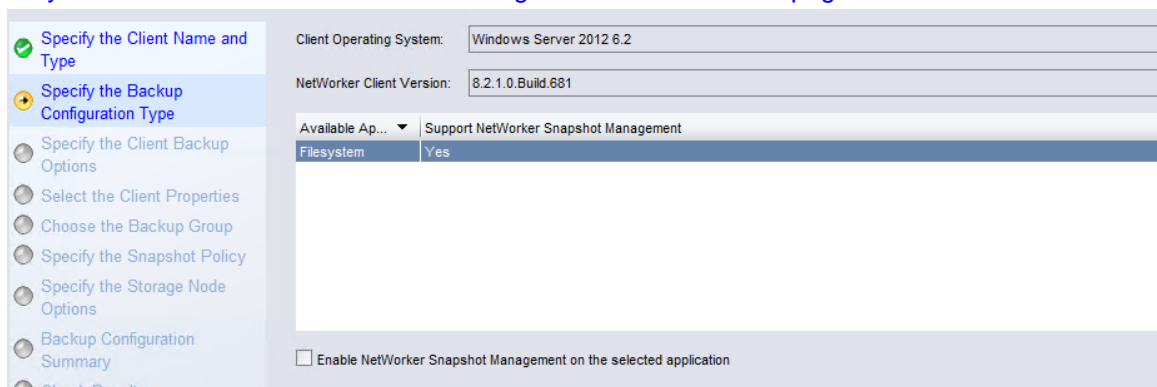
<https://community.emc.com/servlet/JiveServlet/showImage/38-11697-114018/2.jpg>

4. It will ask for restart once completes the installation, it is always recommended to restart the server once possible, else GLR recovery may fail.
5. Go To NetWorker Server > Open NMC > Configuration Tab > Clients > Right Click > New Client Wizard > and Configure the Client as below..

Remember **not to select Deduplication, Deduplication will be selected as None**

Continue and complete the Wizard with a Specific Group to Backup Active Directory, Please Backup Selection can be any or nothing

<https://community.emc.com/servlet/JiveServlet/showImage/38-11697-114019/3.png>
<https://community.emc.com/servlet/JiveServlet/showImage/38-11697-114021/5.png>



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This screenshot shows the configuration interface for an Active Directory backup. The left sidebar contains a list of steps: 'Specify the Client Name and Type', 'Specify the Backup Configuration Type', 'Specify the Client Backup Options' (highlighted), 'Select Files to Backup', 'Select the Client Properties', 'Choose the Backup Group', 'Specify the Snapshot Policy', 'Specify the Storage Node Options', 'Backup Configuration Summary', and 'Client Properties'. The main area is titled 'Block Based Backup: '. Below this, 'Client Direct: ' and 'Parallel save streams per save set: '. A 'Target Pool:' dropdown menu is present. The 'Deduplication' section has 'None' selected, with 'Data Domain backup' and 'Avamar backup' options below it.

This screenshot shows the 'Choose the Backup Group' step in the configuration interface. The left sidebar highlights 'Choose the Backup Group'. The main area has 'Add to an existing group' selected. A table lists existing groups:

Name	Client Retries	Start Time
Default	1	21:00
System	0	21:00

Below the table, 'Create a new group' is selected. The 'Group Name:' field contains 'Active Directory Backup'. The 'Client Retries:' field is empty. The 'Schedule Options' section shows 'Scheduled Backup Start Time (24-hour clock)' set to '21:00'.

<https://community.emc.com/servlet/JiveServlet/showImage/38-11697-114020/4.png>

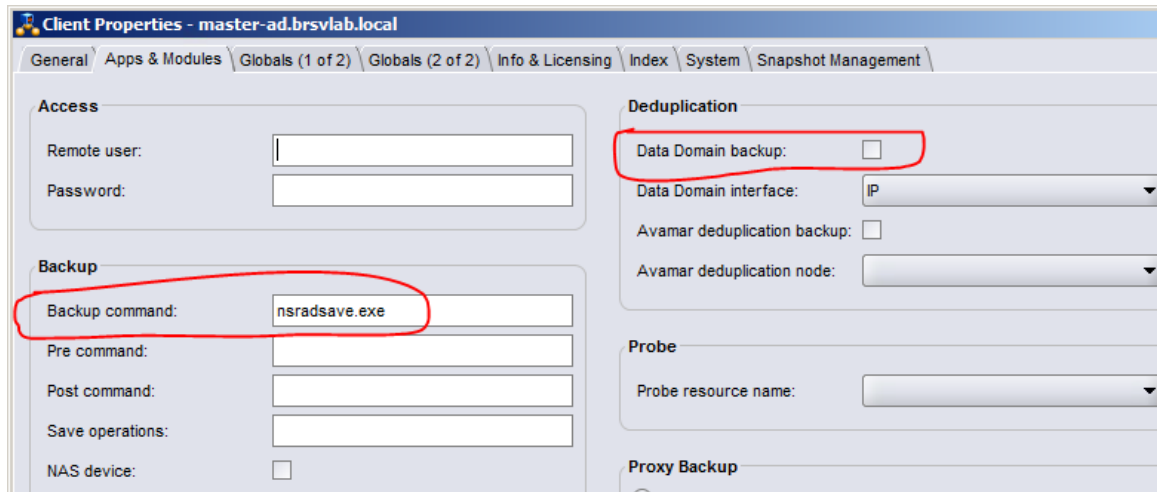
6. In Client Properties > Go to General Tab and Define save set like shown in the Screen Shot below

This screenshot shows the 'Client Properties' window for 'master-ad.brsvlab.local'. The 'General' tab is active. The 'Identity' section shows 'Name: master-ad.brsvlab.local'. The 'Virtualization' section has 'Virtual client: ', 'Physical host:' empty, and 'VBA Host type:' empty. The 'Backup' section has 'Scheduled backup: ', 'Client direct: ', 'Block based backup: ', 'Directive:' empty, and 'Save set: DC=brsvlab,DC=local'.

<https://community.emc.com/servlet/JiveServlet/showImage/38-11697-114022/6.png>

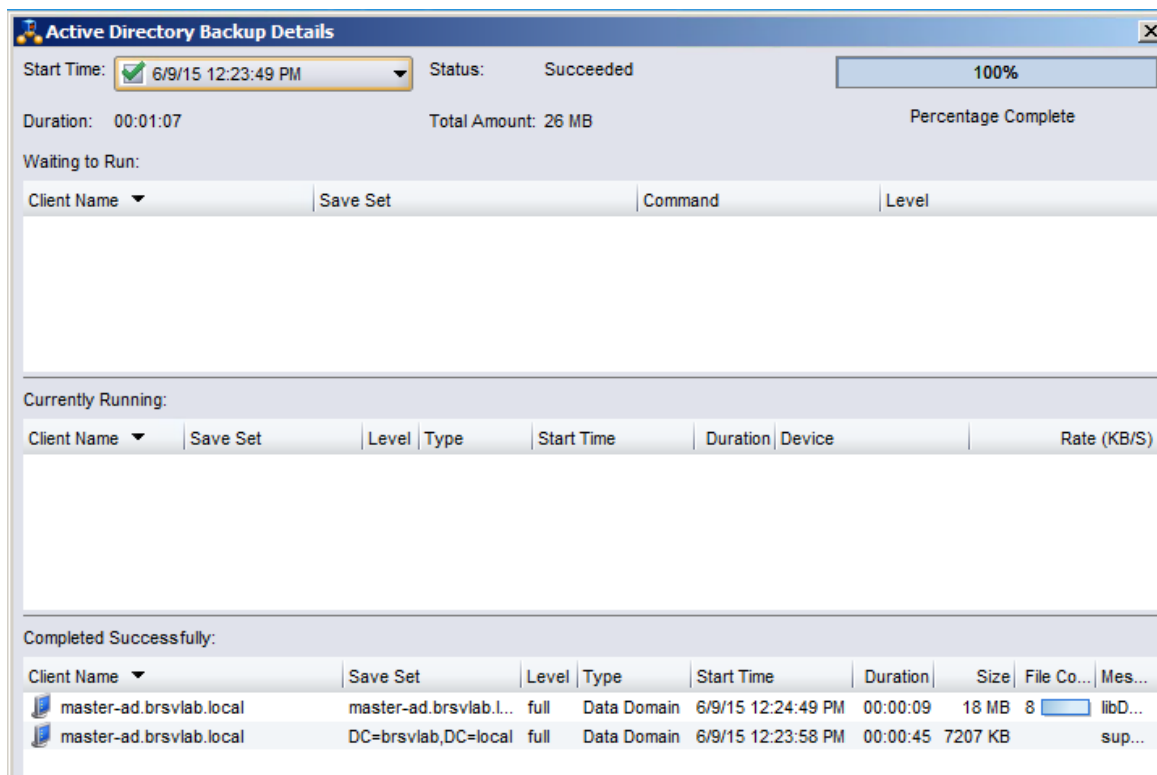
7. Backup Command will be "nsradsave.exe" and under Deduplication Tab, Data Domain backup check box will be "unchecked"

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<https://community.emc.com/servlet/JiveServlet/showImage/38-11697-114023/7.png>

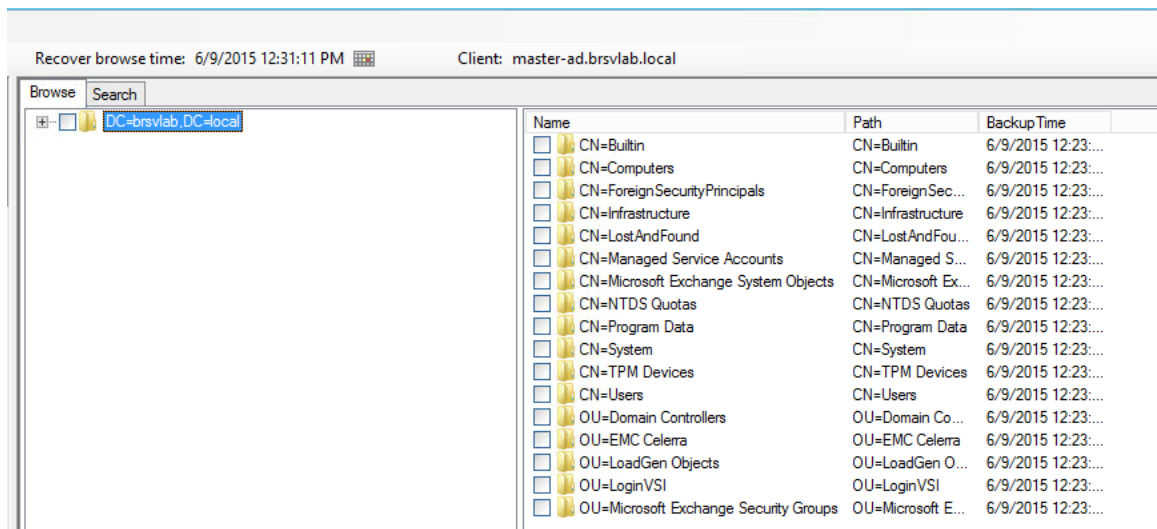
8. Save the Configuration and Run the Backup, Backup will run a bit slow but will be completed, Verify the save set defined is backed up successfully



<https://community.emc.com/servlet/JiveServlet/showImage/38-11697-114024/8.png>

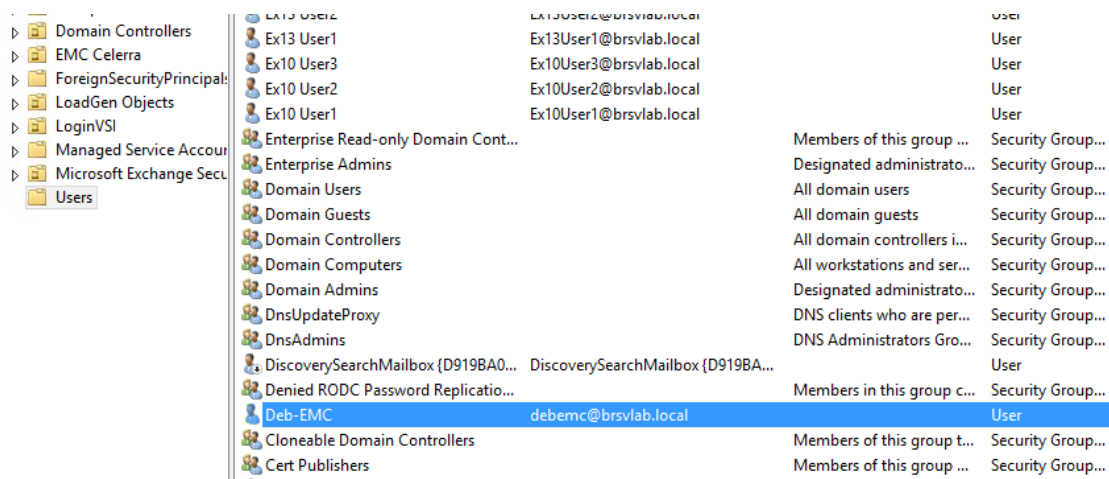
9. To Restore : Login the Active Directory Server and Open "NetWorker User for Microsoft". Verify the Console displaying the Backup of the Active Directory Objects

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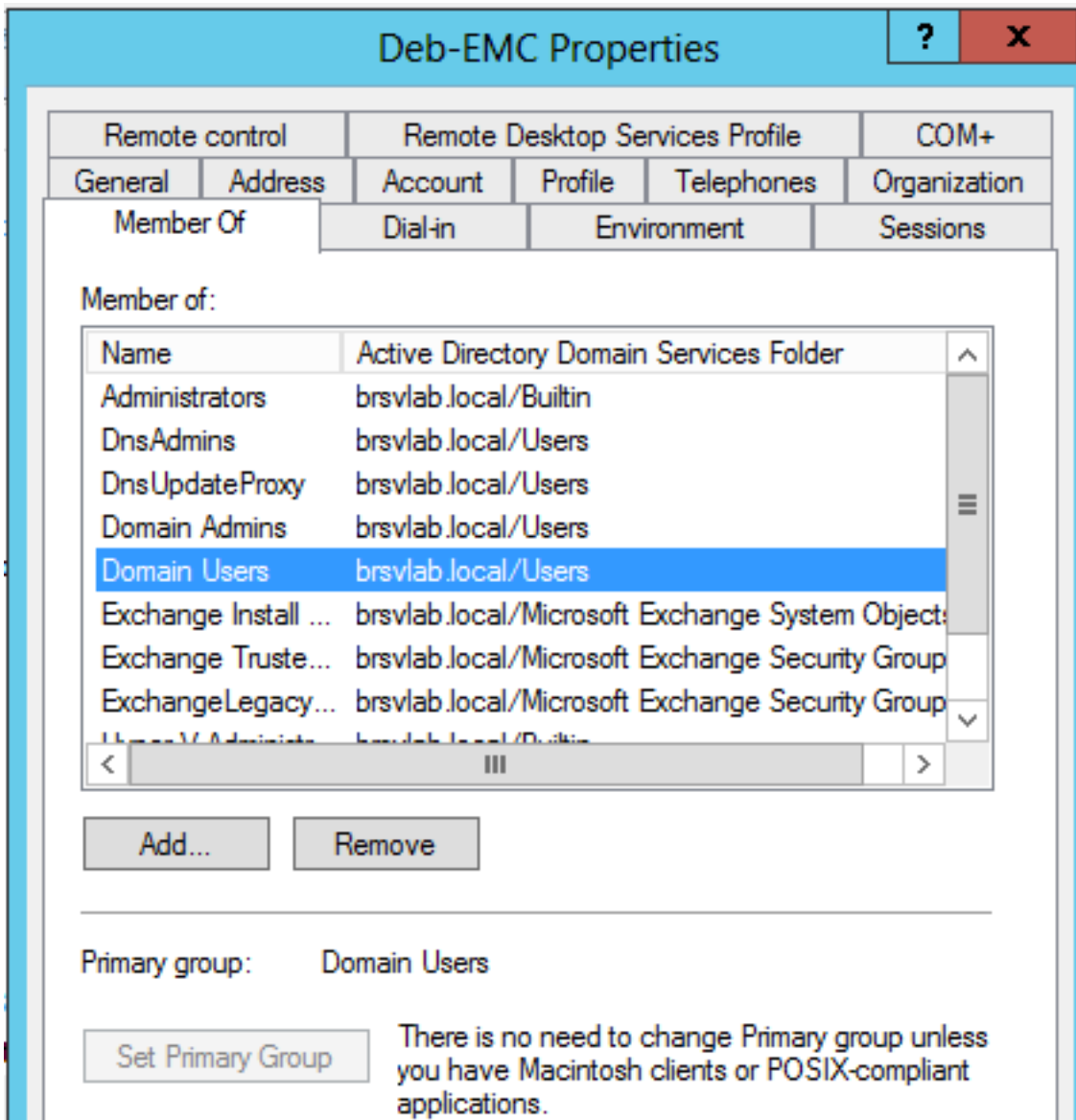
<https://community.emc.com/servlet/JiveServlet/showImage/38-11697-114025/9.png>

10. Create a test User and Run a Backup, here we have created a test user named "Deb-EMC" under Users



<https://community.emc.com/servlet/JiveServlet/showImage/38-11697-114026/10.png>

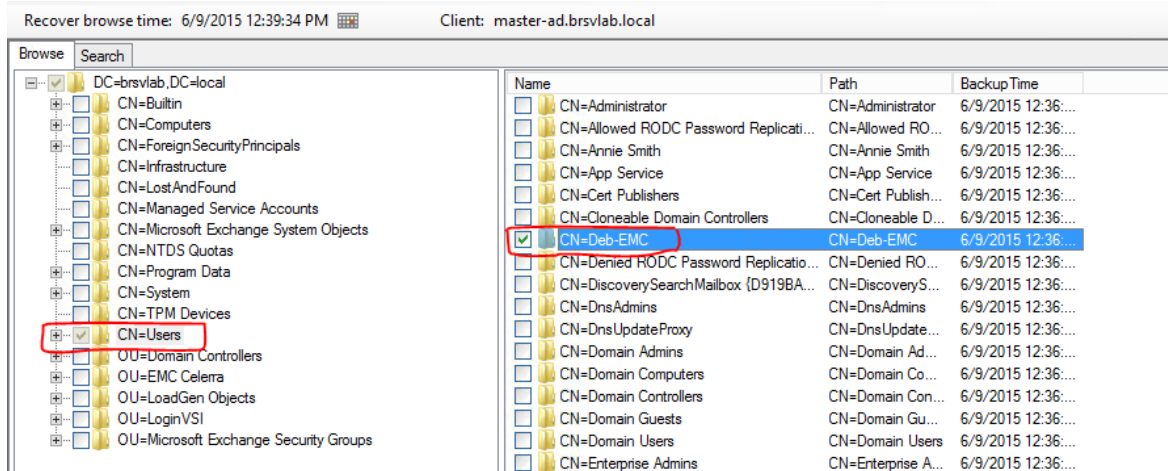
11. Verify the Group Membership of the User, here is the Example



<https://community.emc.com/servlet/JiveServlet/showImage/38-11697-114027/11.png>

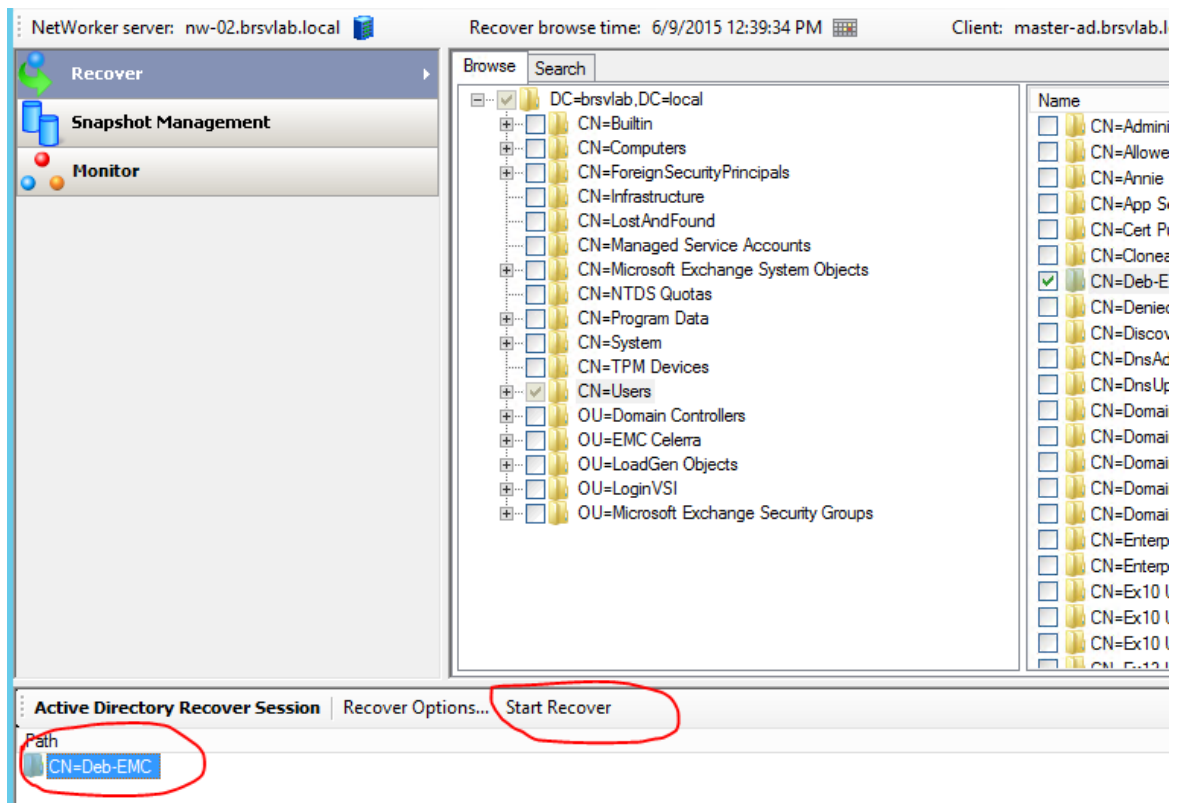
12. Once the Backup is completed, Delete the User and go to > "NetWorker User for Microsoft", Browse to Users Tab and Locate the deleted user as below, Select the User as shown

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<https://community.emc.com/servlet/JiveServlet/showImage/38-11697-114028/12.png>

13. Click on the Start Recover Button below



<https://community.emc.com/servlet/JiveServlet/showImage/38-11697-114029/13.png>

14. Refer to "Monitor" Tab to monitor the restore Activity, It will show recover completed successfully

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<https://community.emc.com/servlet/JiveServlet/showImage/38-11697-114030/14.png>

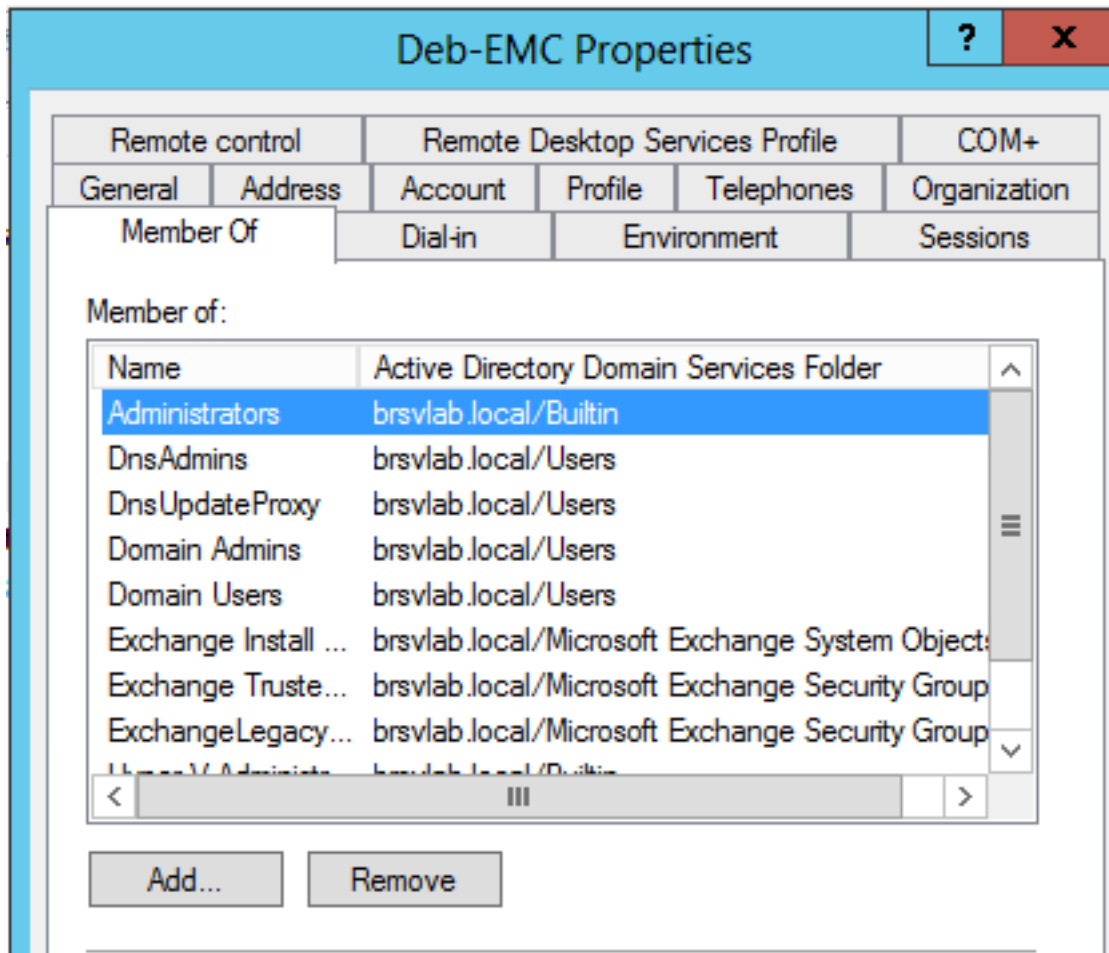
15. Close the NetWorker Window once done. Login to “Active Directory Users and Computers” and navigate to the Users directory, Deb-EMC Account will be showing back again which was deleted previously

The screenshot shows the 'Active Directory Users and Computers' console. The left pane shows the tree structure with 'Users' selected. The right pane displays a list of users with columns for Name, User Logon Name, Description, and Type. The 'Deb-EMC' user is highlighted in blue. The user's logon name is 'debemc@brsvlab.local' and its type is 'User'.

Name	User Logon Name	Description	Type
Administrator	Administrator@brsvlab.local	Built-in account for ad...	User
Allowed RODC Password Replicati...		Members in this group c...	Security Group...
Annie Smith	asmith@brsvlab.local		User
App Service	appsvc@brsvlab.local		User
Cert Publishers		Members of this group ...	Security Group...
Cloneable Domain Controllers		Members of this group t...	Security Group...
Deb-EMC	debemc@brsvlab.local		User
Denied RODC Password Replicatio...		Members in this group c...	Security Group...
DiscoverySearchMailbox {D919BA0...	DiscoverySearchMailbox {D919BA...		User
DnsAdmins		DNS Administrators Gro...	Security Group...
DnsUpdateProxy		DNS clients who are per...	Security Group...
Domain Admins		Designated administrato...	Security Group...

<https://community.emc.com/servlet/JiveServlet/showImage/38-11697-114031/15.png>

16. Remember the recovered Account will be in Disabled mode, we need to enable it back, and please check the group membership also that is restored properly



community.emc.com/servlet/JiveServlet/showImage/38-11697-114032/16.png

Please Note: NMM performs only Granular Level backup of AD, supporting the following objects:

1. Users
2. Groups
3. Organizational units
4. Computer
5. Contact
6. InetOrgPerson
7. Shared folder
8. MSMQ queue alias

Hope this helps, in case of further questions please revert back to : Debabrata.Chakraborty@emc.com