Configure Active Directory Snapshots

Create a snapshot of AD DS in Windows Server 2012 R2 by using NTDSUTIL.

NTDSUtil in Windows Server 2012 can create and mount snapshots of AD DS.

A snapshot is a form of historical backup that captures the exact state of the directory service at the time of the snapshot.

You can use tools to explore the contents of a snapshot to examine the state of the directory service at the time the snapshot was made, or connect to a mounted snapshot with LDIFDE and export a reimport objects into AD DS.

For this short demo, I use my DC01.comsys.local server.

Lets get started...

1 - On the domain server, which is my DC01.comsys.local, open command prompt and type **ntdsutil** and press enter...



2- Next, type **snapshot** and press enter...

Recycle Bin		
	🖾 Administrator: Command Prompt - ntdsutil	
	Microsoft Windows (Version 6.3.9431) (c) 2013 Microsoft Corporation. All rights reserved.	
	C:\Users\Administrator>htdsutil htdsutil: snapshot_	
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3 – Next, type activate instance ntds and press Enter...



4 – Next, type create (this create command is to generate a snapshot of my AD) and press Enter...



5 – Next, make sure you **copy the copy the GUID** somewhere (highlight the GUID and then copy)...



6 – Next, type quit 2 times to exit from snapshot...



7 – Now, lets **make some change to my ADDS** by deleting 1 of my AD user, for this demo, I choose my user from Research department

2	Active Directory Users and Computers					
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		Properties Help				



Once you deleted the user, you need to mount an Active Directory snapshot, and create a new instance so that later we can retrieve back the deleted user...

8 – in CMD, type **ntdsutil**, then snapshot, then type **activate instance ntds**, then type **list all** (please refer to the screen shot)...



9 – Next, you need to **mount GUID no** (please refer to my screen shot), type **mount <GUID> no** and press enter...



10 - once successful, exit the process by typing quit 2 times...



11 – Next, on the CMD, type dsamain /dbpath

C:\\$SNAP_datetime_volumec\$\windows\ntds.dit /ldapport 50000

** be aware that datetime will be a unique value. There only should be one folder on your C:\ drive with a name that begins with \$snap.



12 - Leave Dsamain.exe running, and do not close the CMD...

** A message indicates that Active Directory Domain Services startup is complete...



13 – Next, lets explore a snapshot with Active Directory Users and Computers, on the ADUC, **right click Comsys.local** and click **Change Domain Controller**





14 – type **DC01:50000 on the <Type a Directory Server name[:port] here>, then click OK...**

15 – Next, browse to Research OU and you will notice that our deleted user is now back online



16 – our last step is to unmount an Active Directory snapshot...

on the command prompt, press CTRL+C to stop DSAMain.exe...



17 - then wrap up the whole process, on the CMD, type :

ntdsutil snapshot activate instance ntds list all unmount guid (guid is the GUID of the snapshot) list all quit quit

