

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.

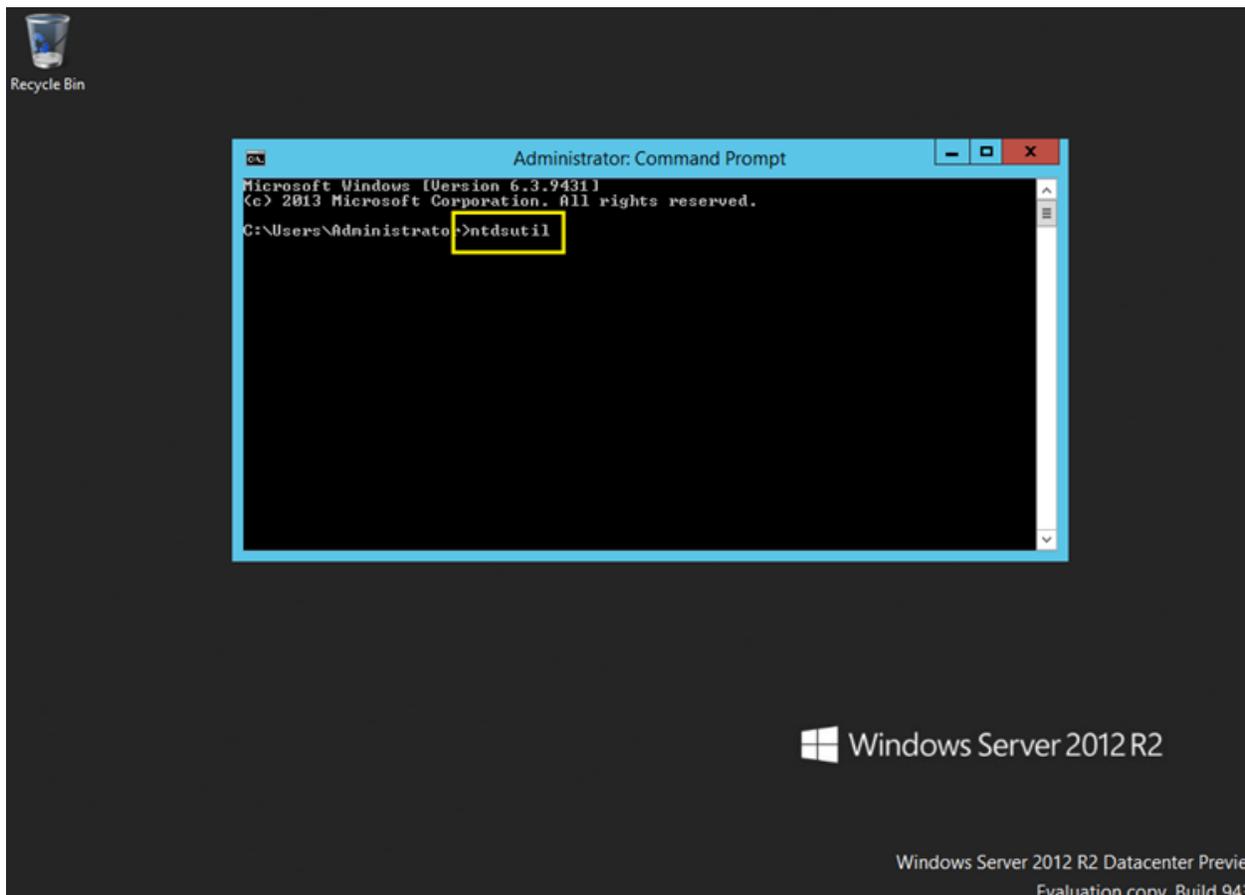
A snapshot is a form of historical backup that captures the exact state of the directory service at the time of the snapshot.

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 reimpor objects into AD DS.

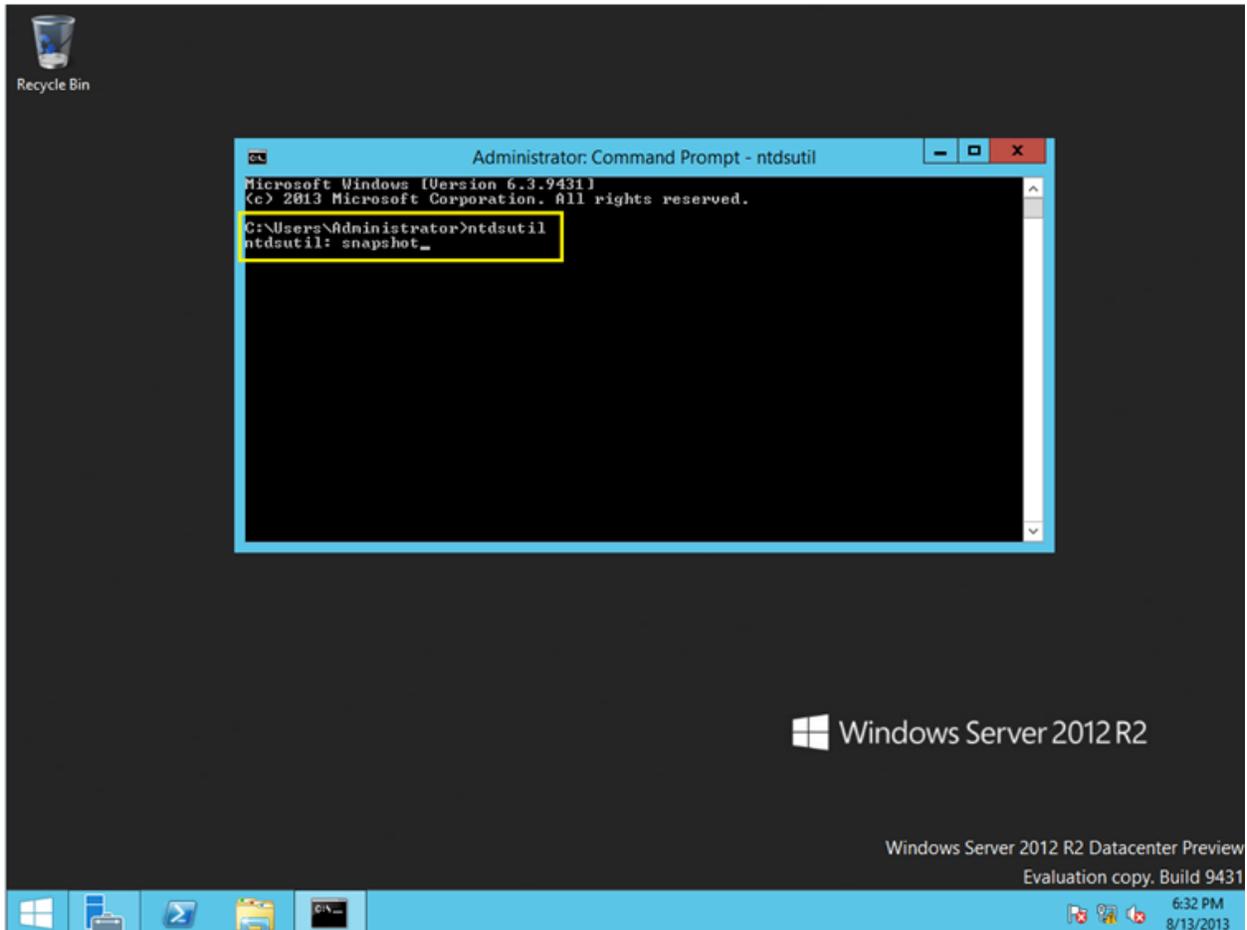
For this short demo, I use my DC01.comsys.local server.

Lets get started...

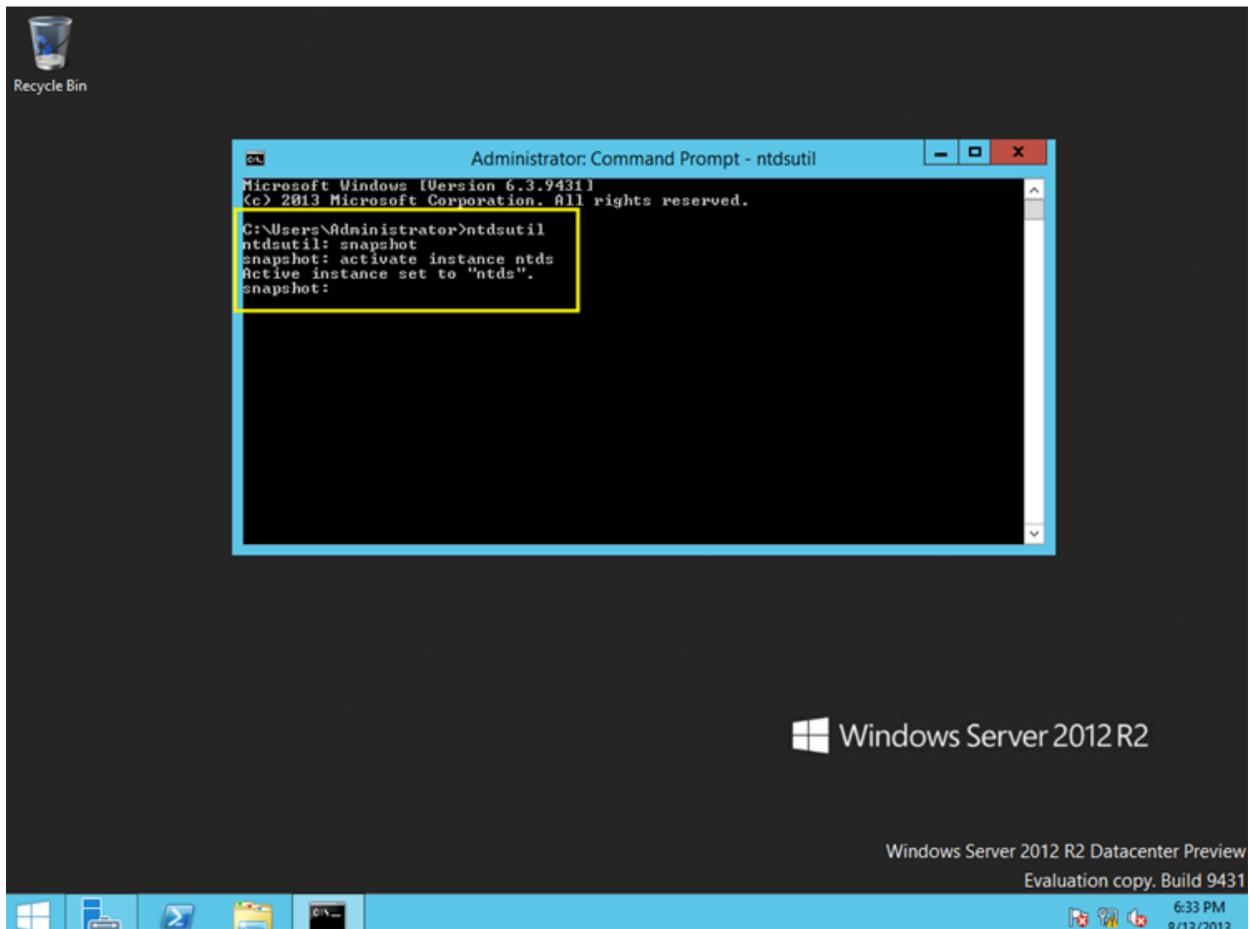
1 – On the domain server, which is my DC01.comsys.local, open command prompt and type **ntdsutil** and press enter...



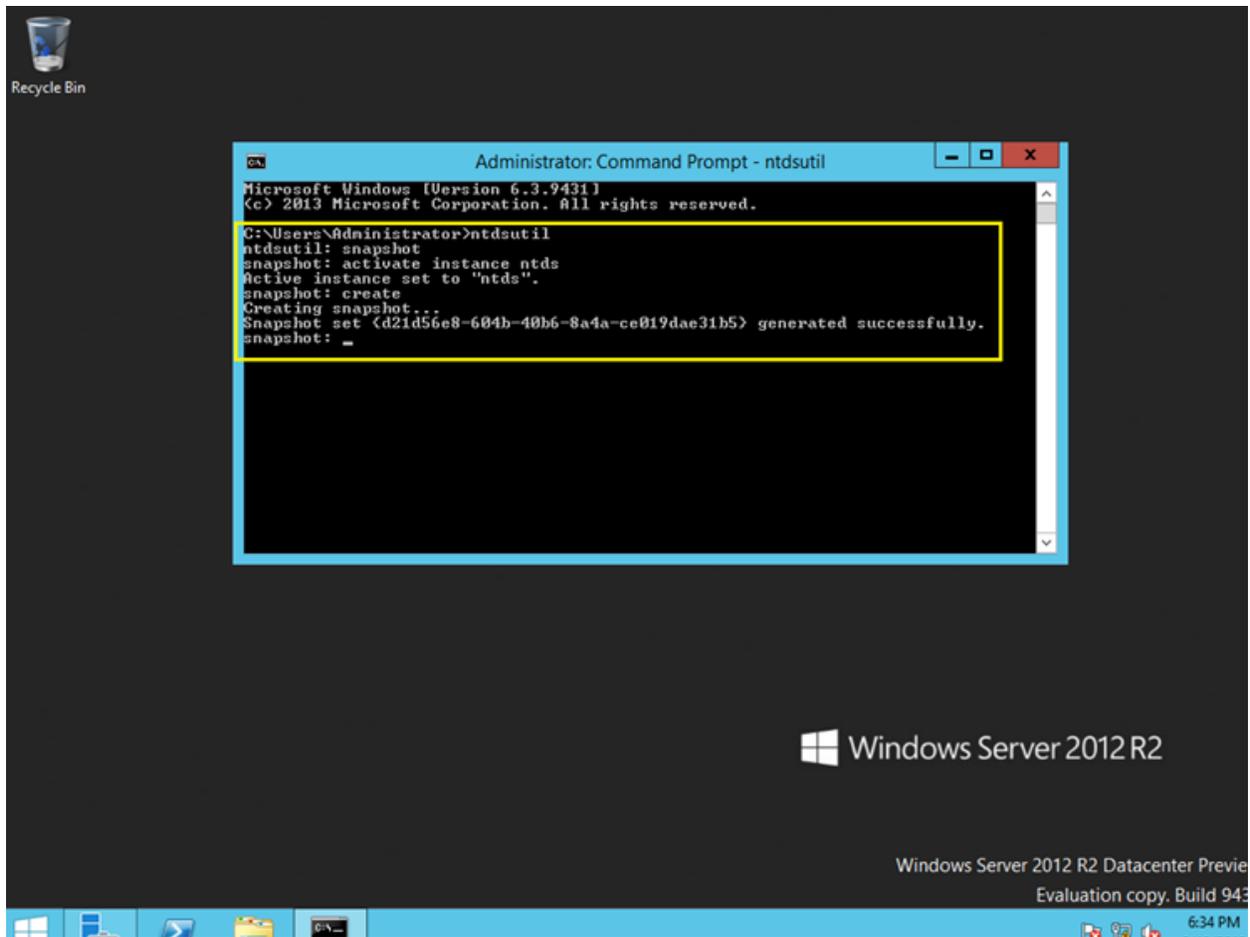
2- Next, type **snapshot** and press enter...



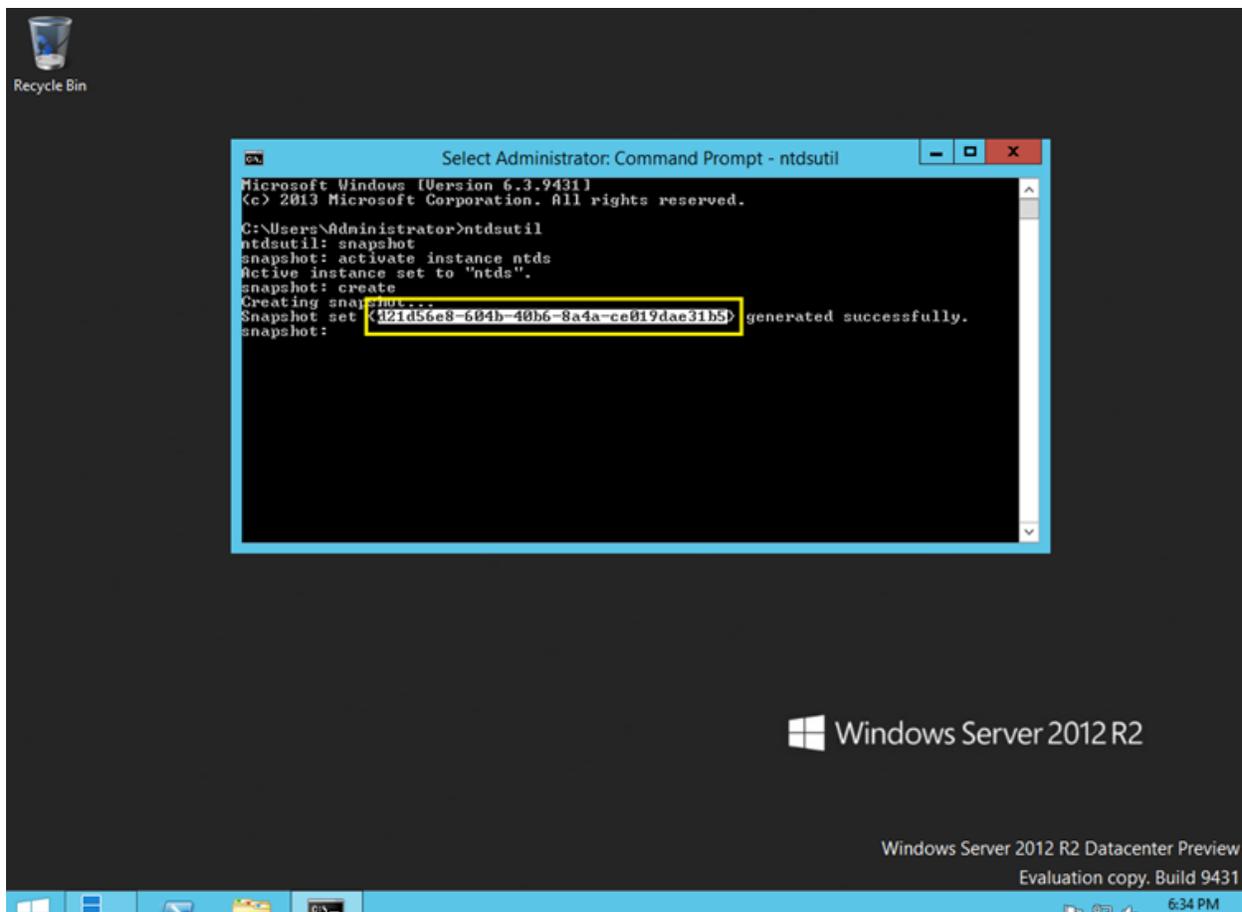
3 – Next, type **activate instance ntds** and press Enter...



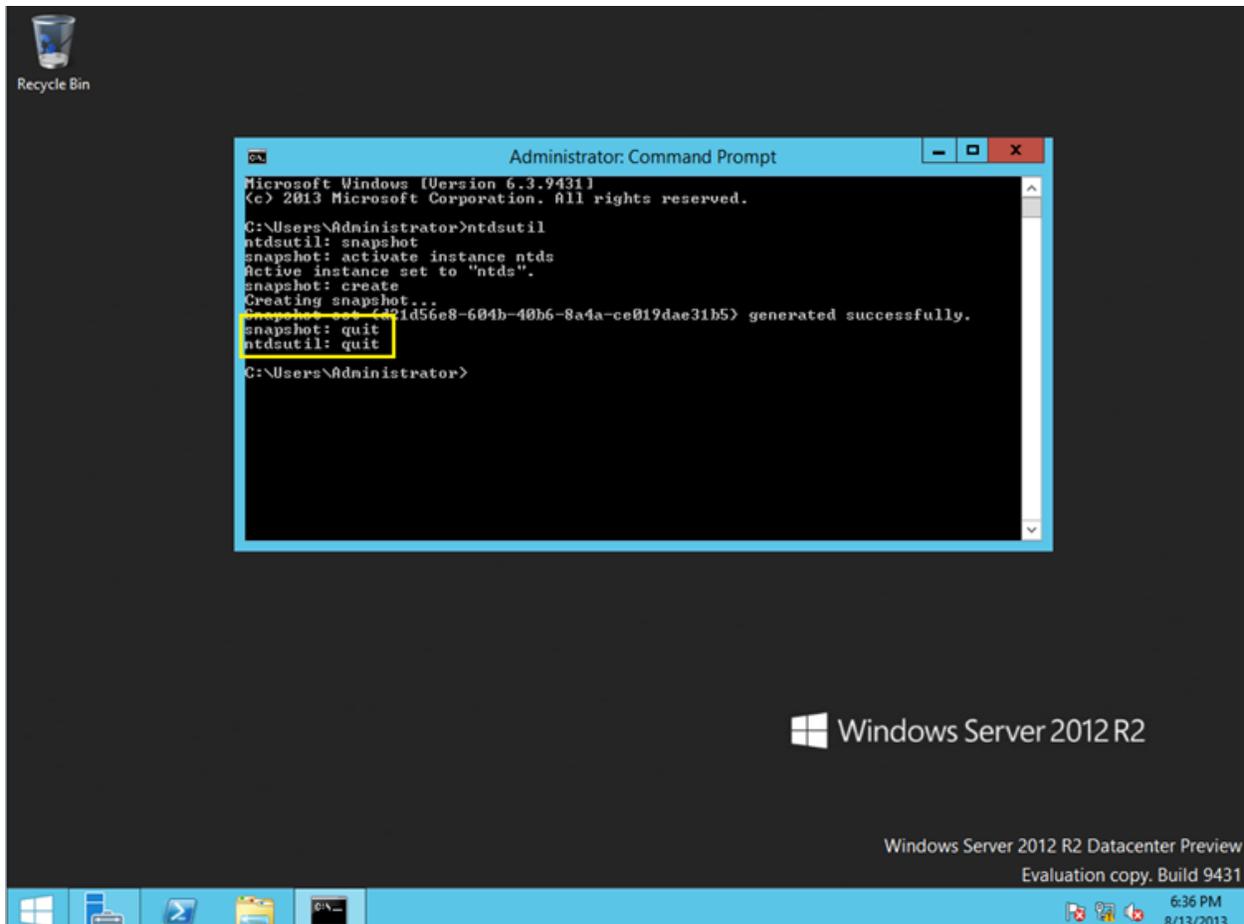
4 – Next, type **create** (this create command is to generate a snapshot of my AD) and press Enter...



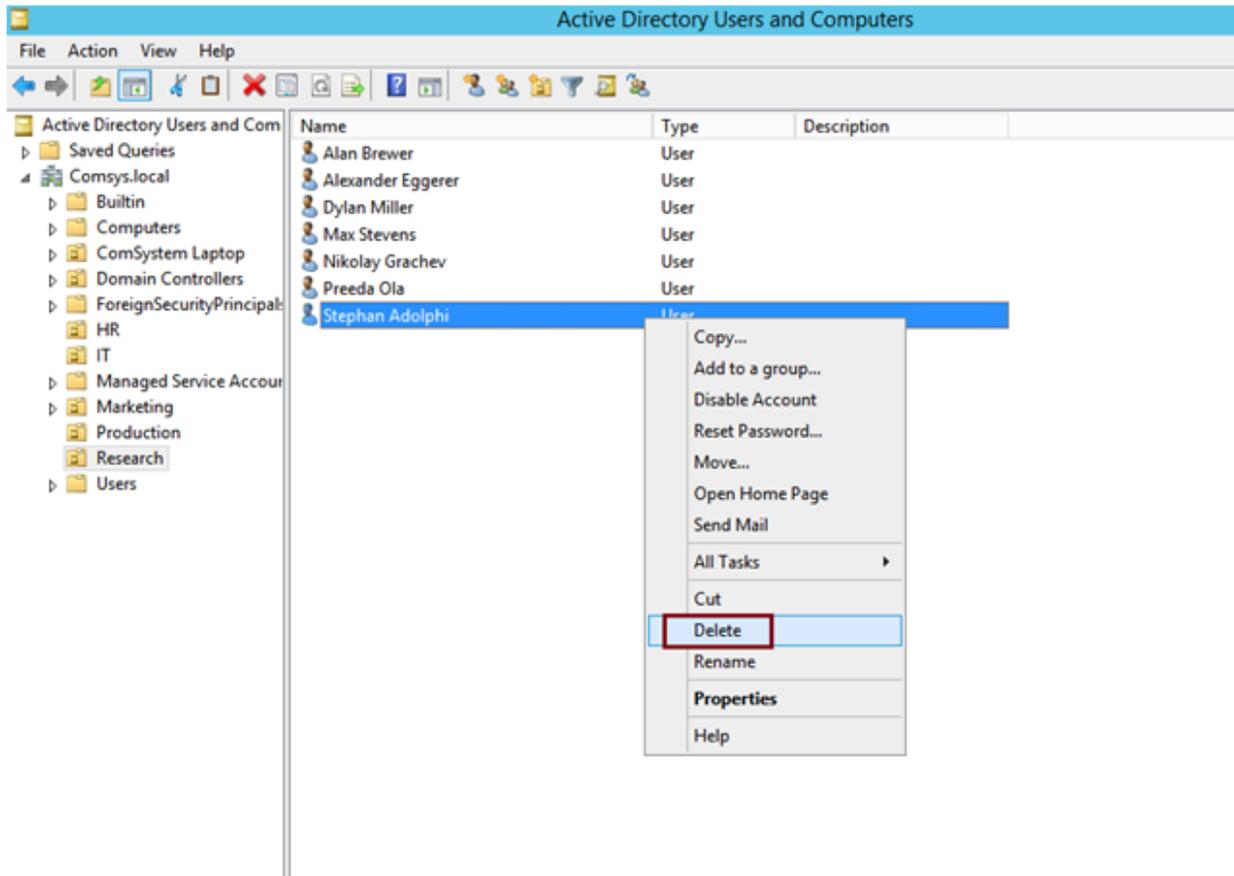
5 – Next, make sure you **copy the copy the GUID** somewhere (highlight the GUID and then copy)...

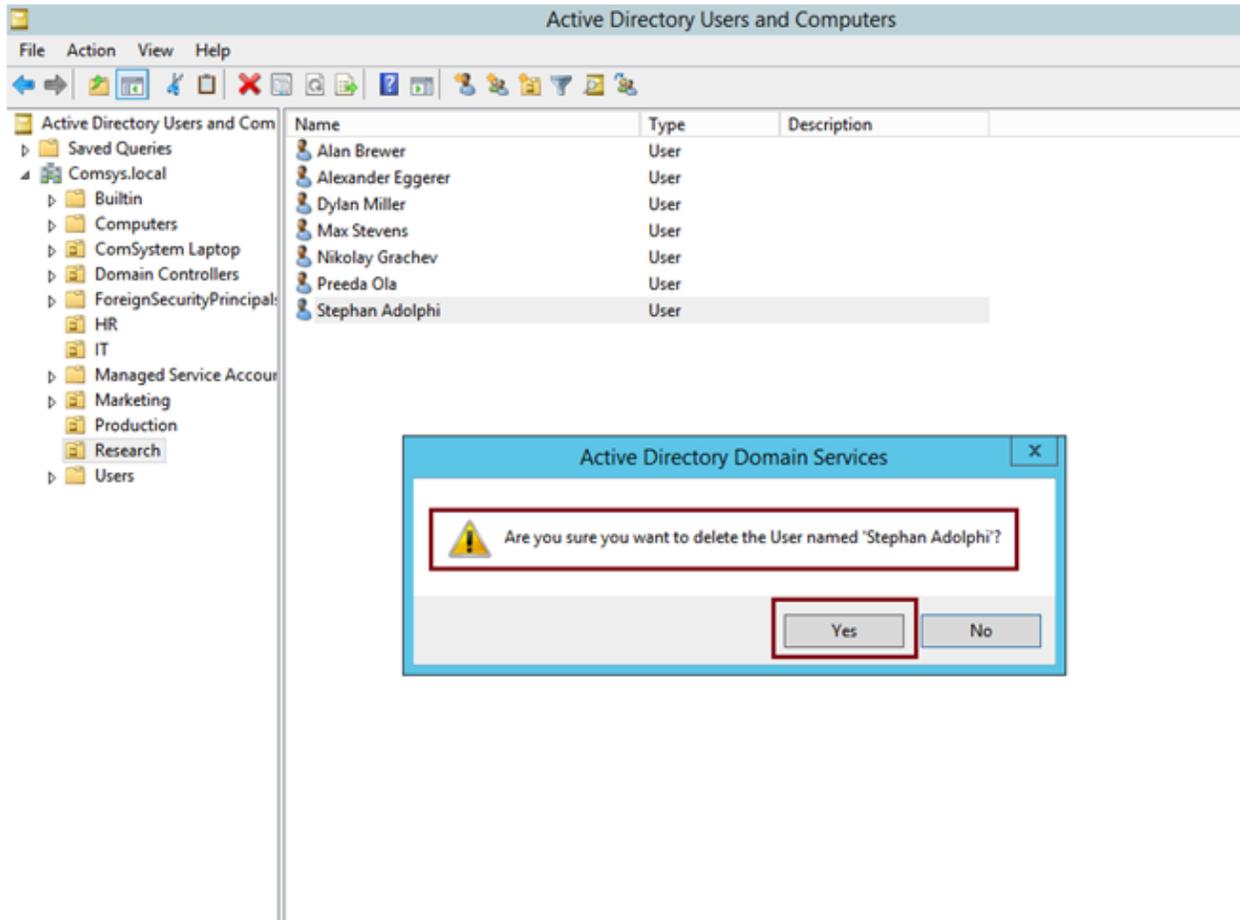


6 – Next, type **quit** 2 times to exit from snapshot...



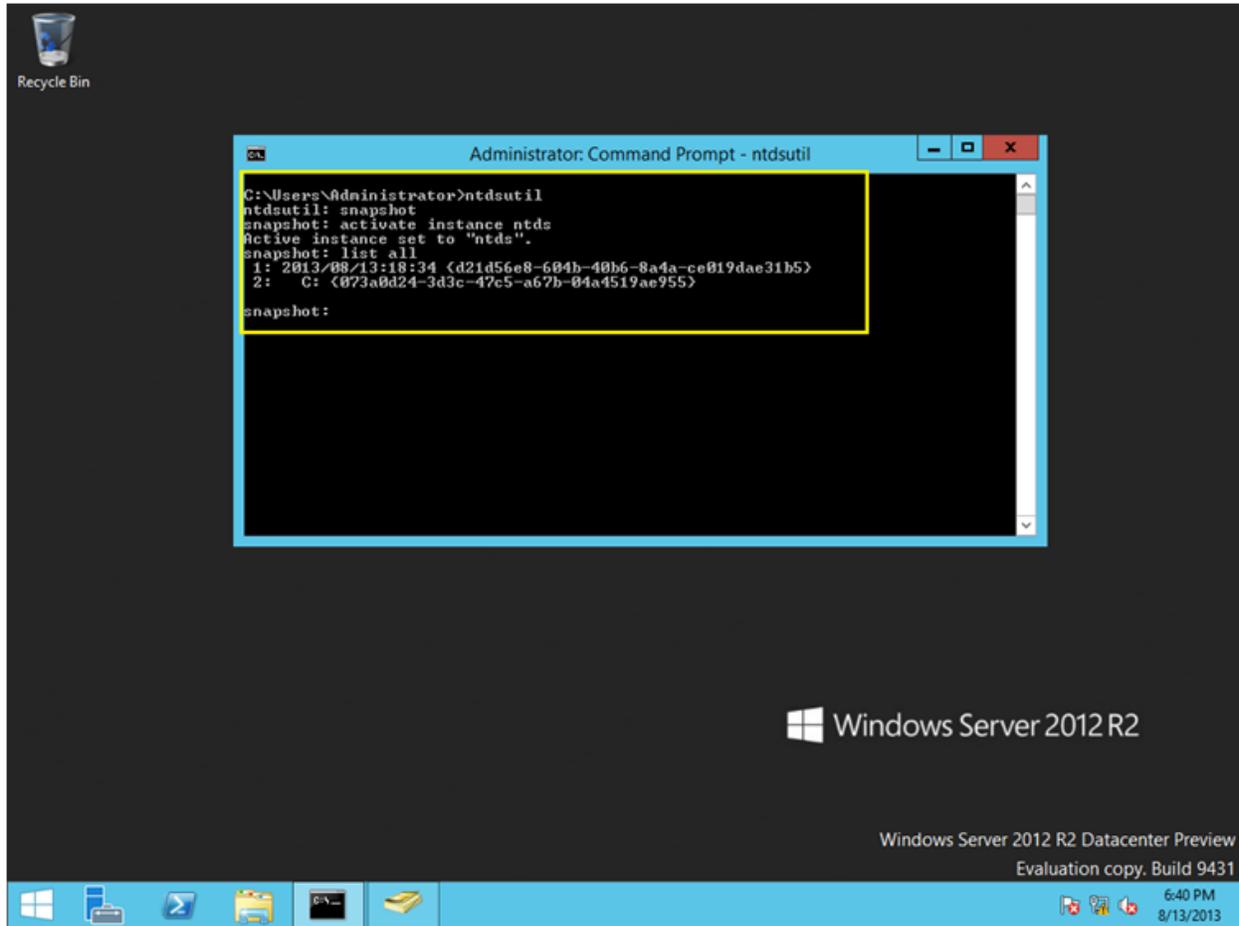
7 – Now, lets **make some change to my ADDS** by deleting 1 of my AD user, for this demo, I choose my user from Research department



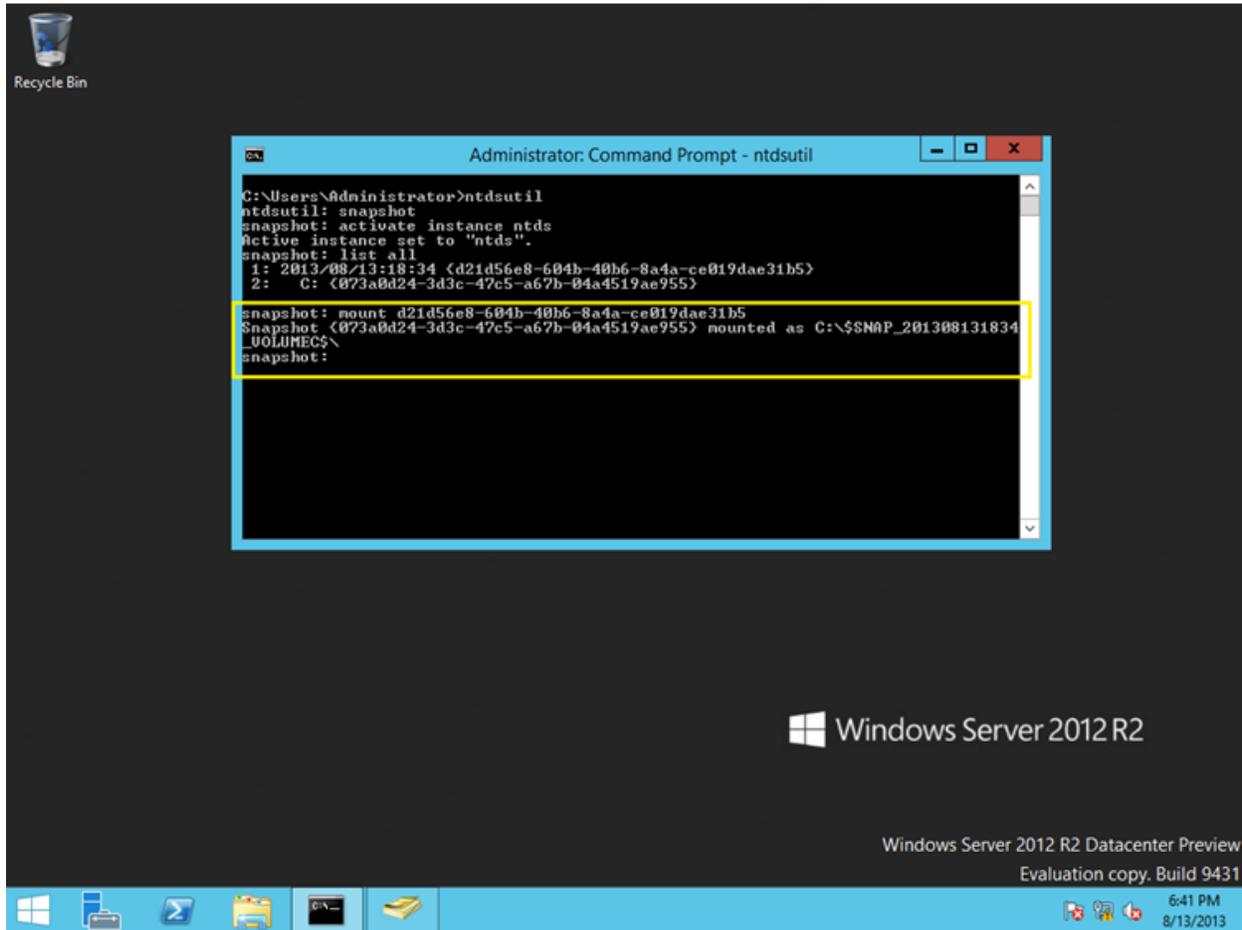


Once you deleted the user, you need to mount an Active Directory snapshot, and create a new instance so that later we can retrieve back the deleted user...

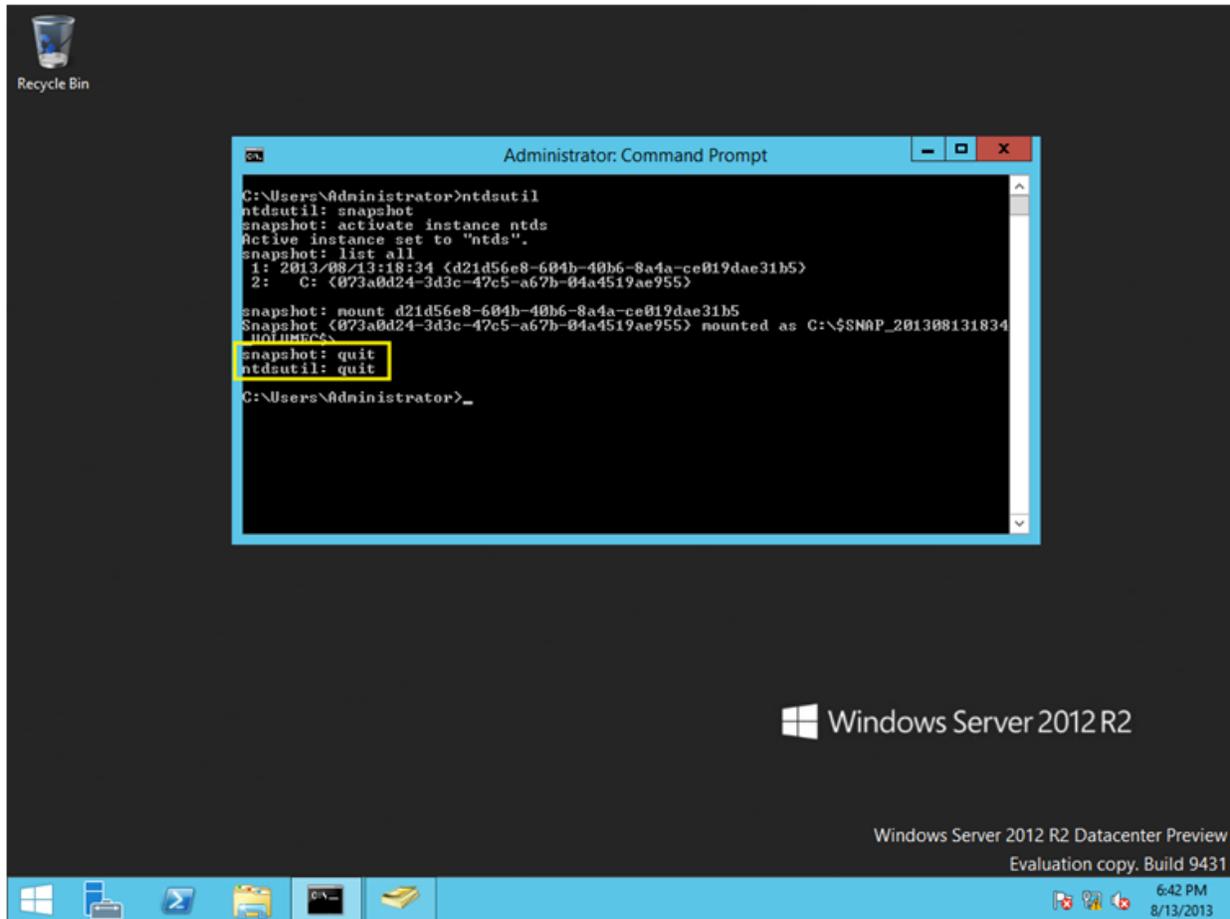
8 – in CMD, type **ntdsutil**, then **snapshot**, then type **activate instance ntds**, then type **list all** (please refer to the screen shot)...



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



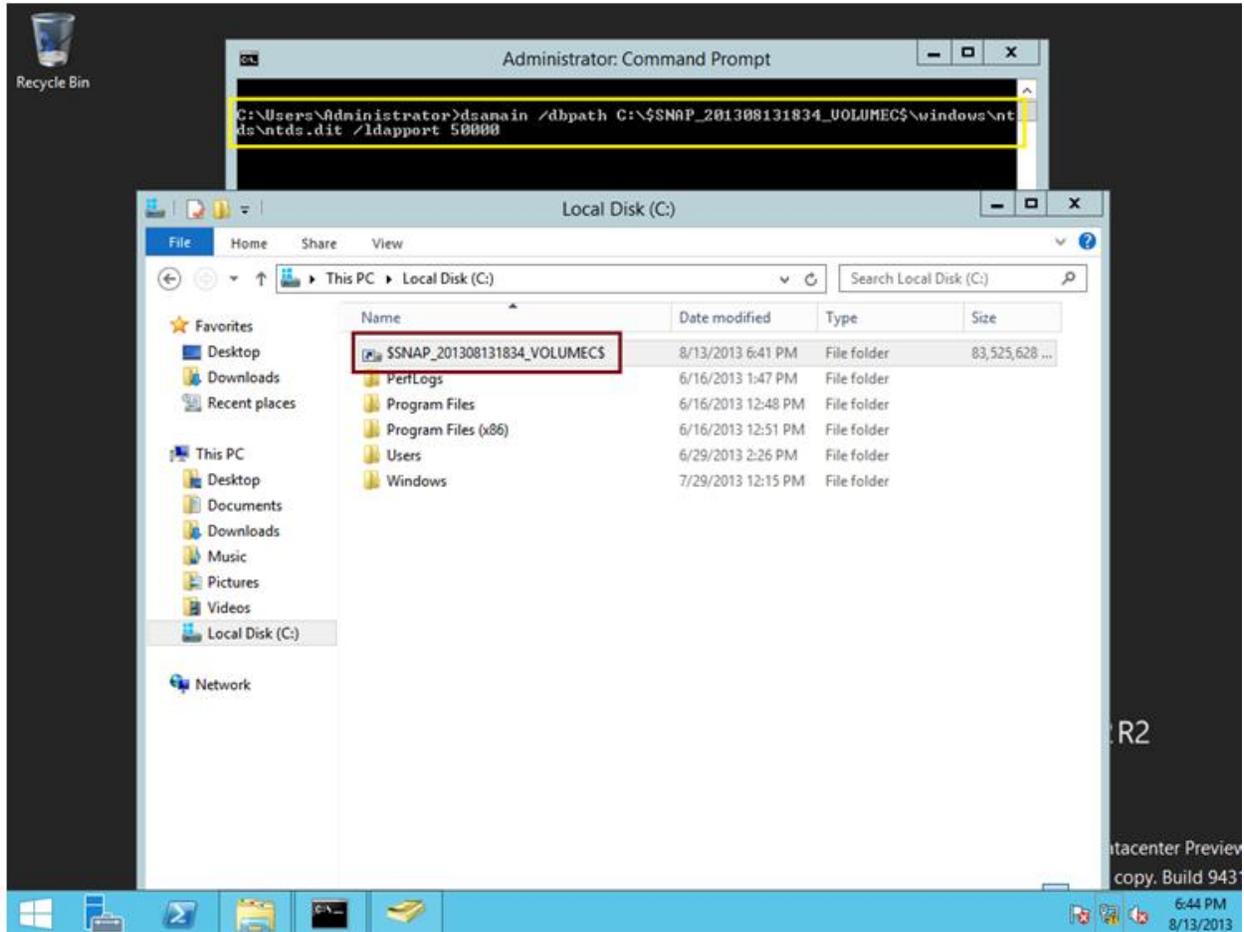
10 – once successful, **exit** the process by typing quit 2 times...



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

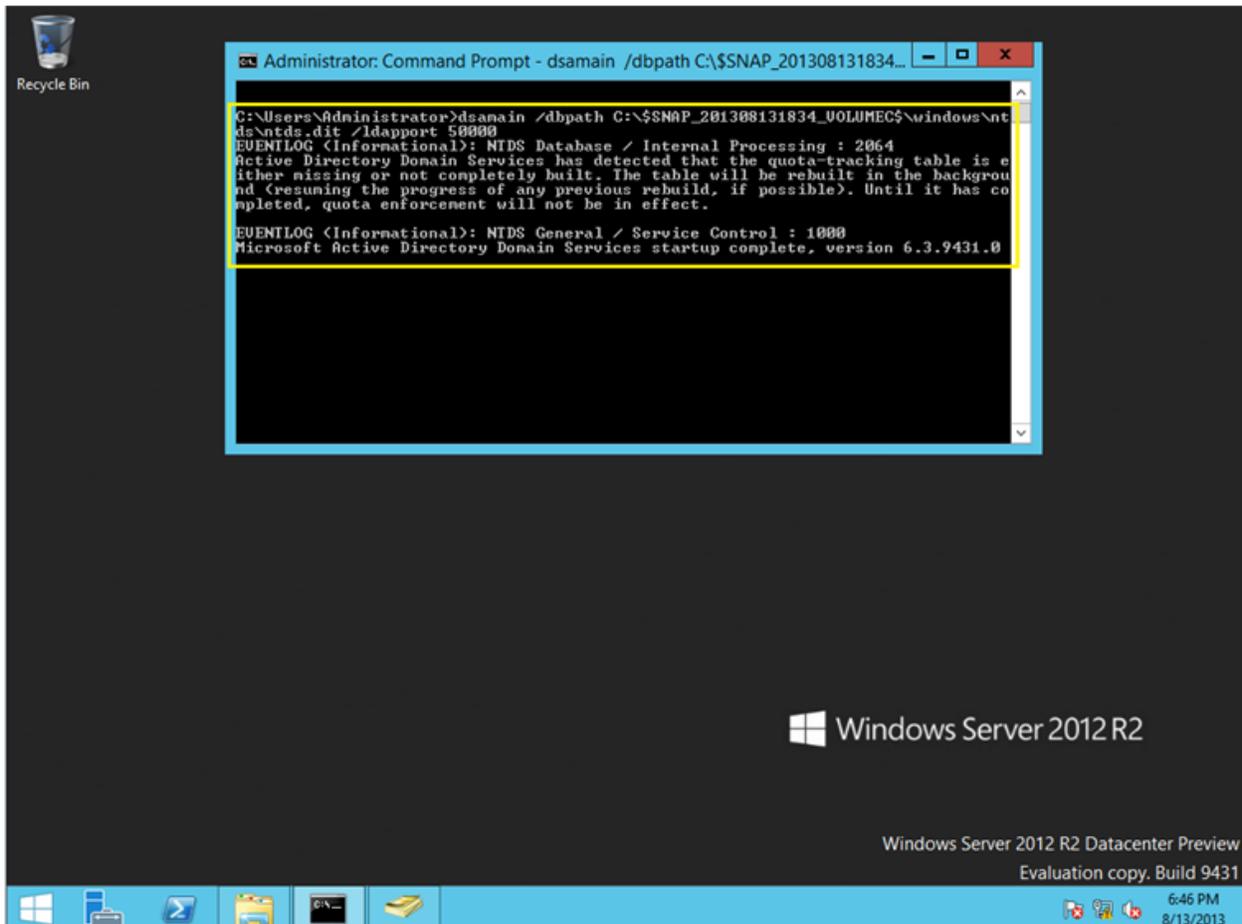
C:\\$SNAP_datetime_volume\$\windows\ntds\ntds.dit /ldapport 50000

**** 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.**

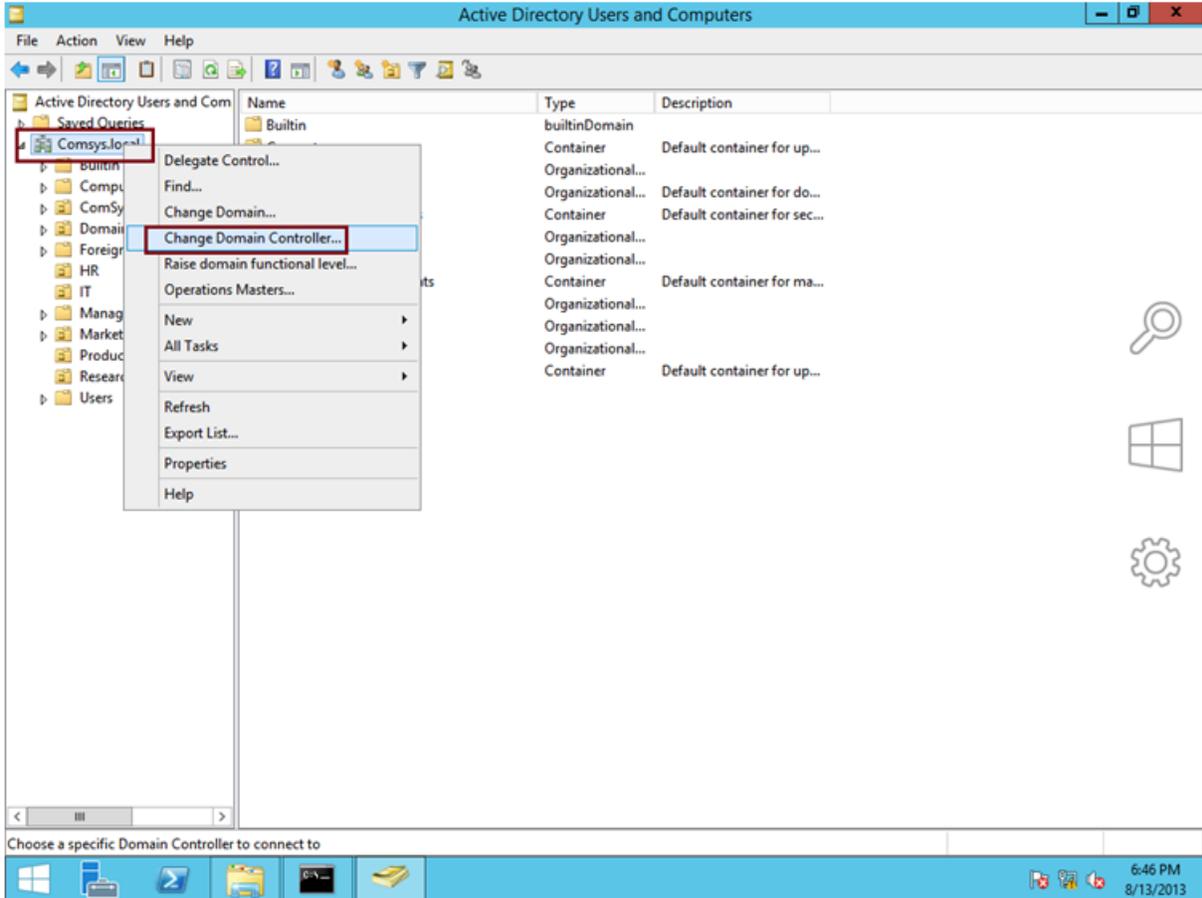


12 – Leave Dsain.exe running, and do not close the CMD...

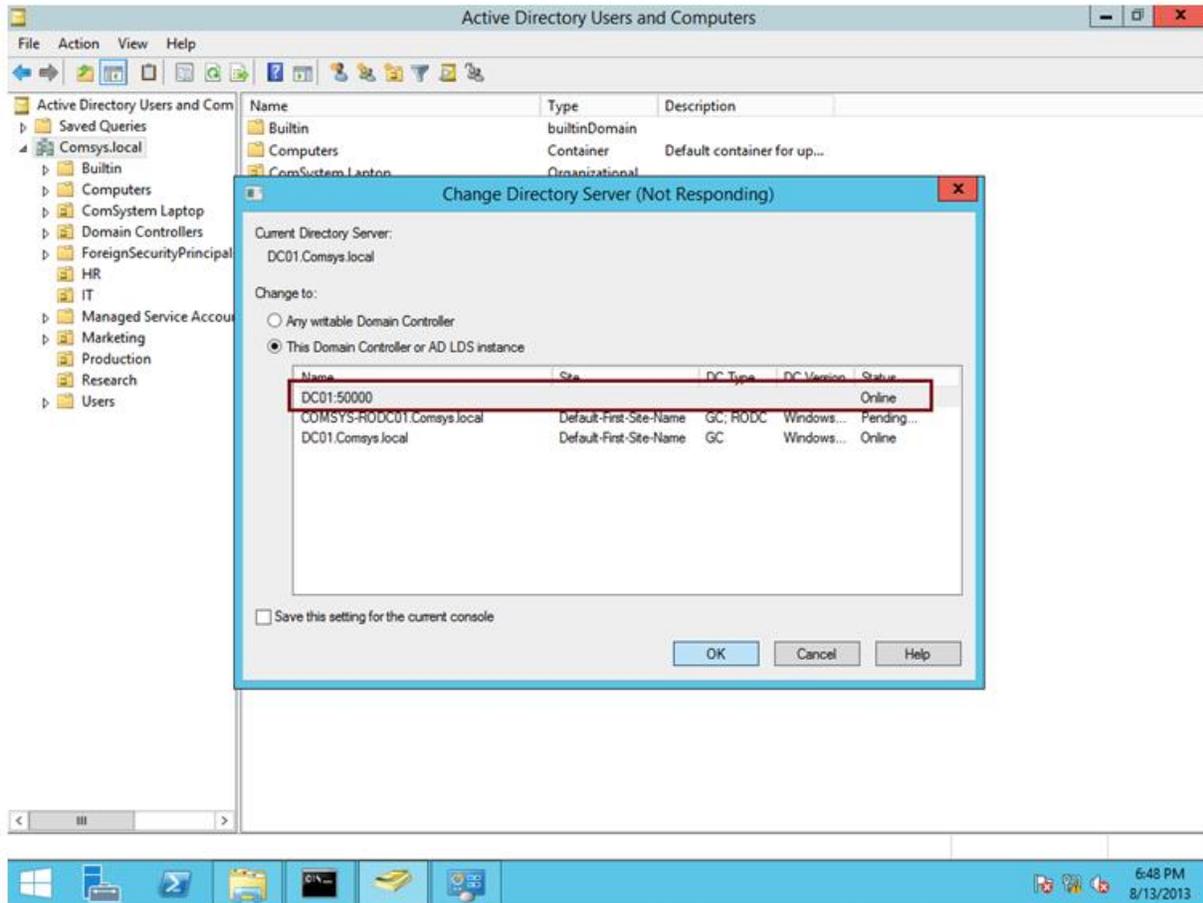
**** A message indicates that Active Directory Domain Services startup is complete...**



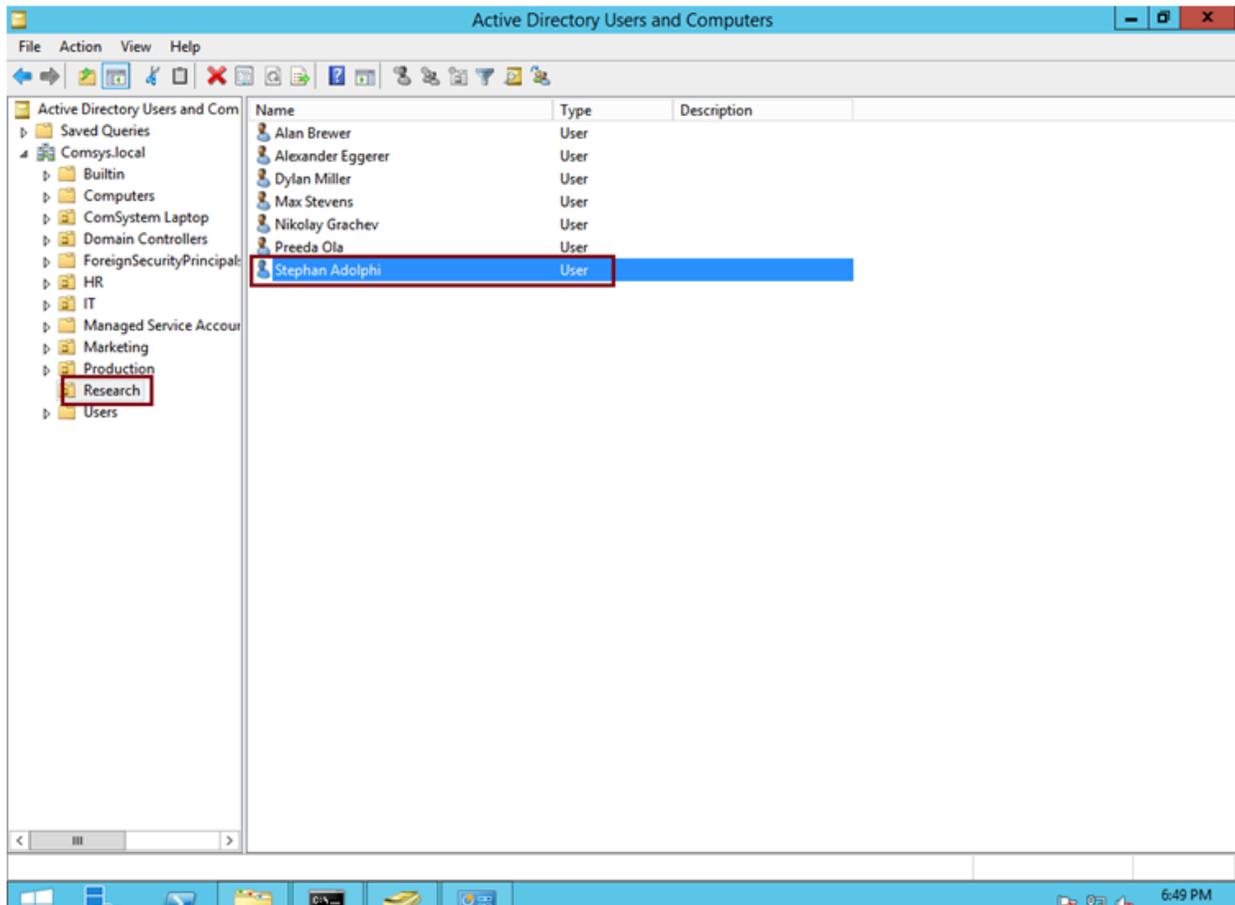
13 – Next, lets explore a snapshot with Active Directory Users and Computers, on the ADUC, **right click Comsys.local** and click **Change Domain Controller**



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

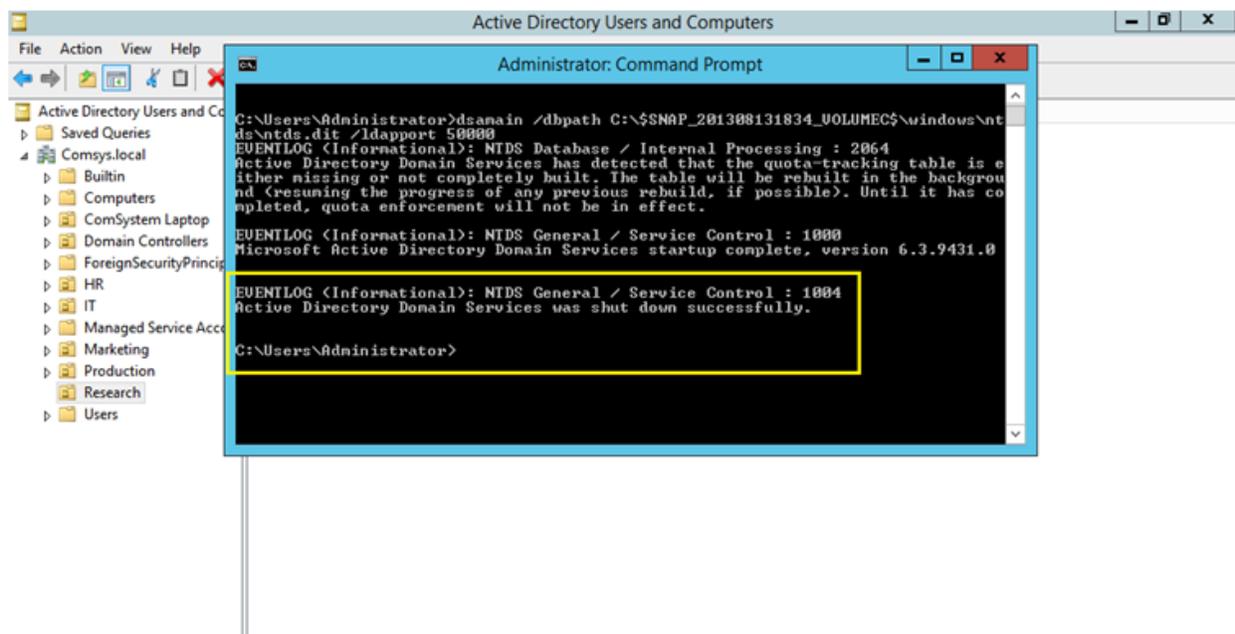


15 – Next, **browse to Research OU** and you will notice that our **deleted user is now back online**



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

