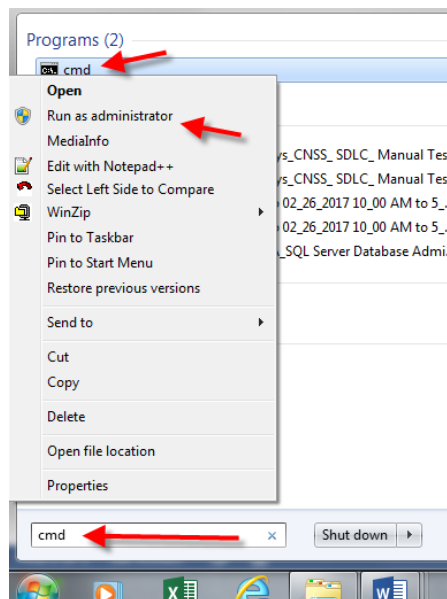# CORE MODULE
LAB3: Operating Systems

Prepared By : Nizam Mahmood , Infrastructure Consultant

1. Open DOS prompt with Admin privilege as follows

     On the Search option type CMD , rich click on CMD and then click on " Run as administrator"
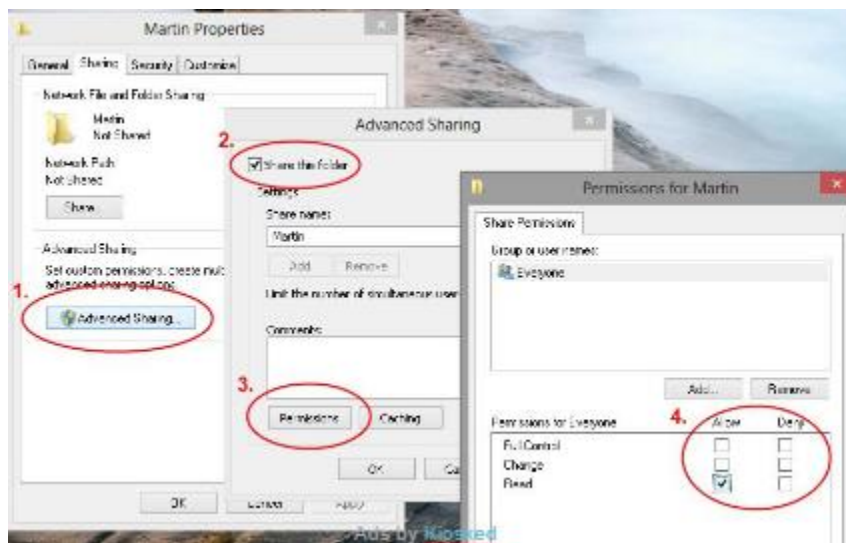

2. Create two folder under C: drive named as " PNTNY" and "PNTVA" as below


```
C:\Users\Nizam>cd/

C:\>md PNTNY PNTVA
```

3.   Share the PNTNY folder as below :
     a) Right-click on the folder/drive that you wish the share and select "Properties".
     b) Select the tab "Sharing" and click on "Advanced Sharing..."
     c) Click the box "**Share this folder**" and enter a share name for it.

d) Click on permissions, mark the group entry "Everyone" and configure the network permissions for this folder in the lower field according to your requirements.(Allow Full Control permission to everyone)

4. **Share the PNTVA and PNTNY folder from the command prompt**

```
C:\Windows\system32>CD/

C:\>net share pntva=c:\pntva /g:everyone,Full
pntva was shared successfully.
```

5. From the command prompt ,create files with the **output of a command** as follows :

```
C:\>hostname > c:\pntny\sys.txt

C:\>ipconfig > c:\pntny\ip.txt

C:\>ver > c:\pntny\ver.txt
```

6. Filtering in DOS (The output of the first command is the input of the second command)
Execute the below commands :

```
C:\LAB1>systeminfo | find "Host Name:"
Host Name:                GTSPC01

C:\LAB1>systeminfo | find "Total Physical Memory:"
Total Physical Memory:     3,574 MB

C:\LAB1>systeminfo | find "Host Name:" > sys.txt

C:\LAB1>systeminfo | find "Total Physical Memory:" > mem.txt
```
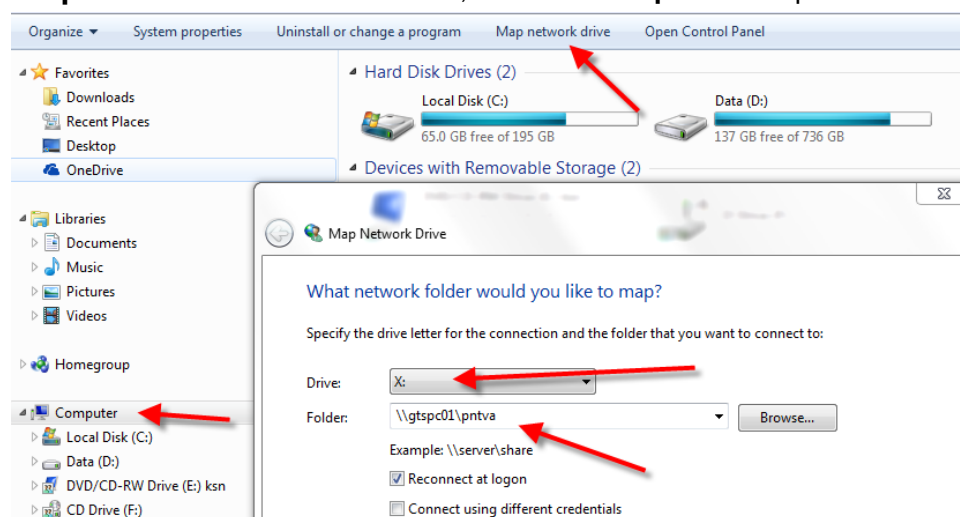
7. **Create a Map drive using windows explorer :**

Step 1: Click the **Windows button**, and then **Computer** > map network drive

Step 2: Choose the drive letter and then type the **UNC path**(\\computer\share) of the shared folder and then click **OK**

8. **Create a map drive using Command prompt :**

```
C:\lab1\HR\emp>net use y: \\gtspc01\pntny
The command completed successfully.
```

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9. **Create a folder under C: drive as NTBACKUP and share this pntbackup folder with everyone full control permission**

```
C:\>net share pntbackup=c:\pntbackup /grant:everyone,full
pntbackup was shared successfully.
```

10. **Using xcopy command copy the contents of LAB1 folder to PNTBACKUP shared folder**

```
C:\>xcopy "c:\lab1\*.*" "\\gtspc01\pntbackup" /e /y
C:\lab1\HR\dept\ProjectPlan1.docx
C:\lab1\HR\dept\ProjectPlan2.docx
C:\lab1\HR\emp\john.txt
C:\lab1\HR\emp\mike.txt
C:\lab1\IT\ProjectPlan1.docx
C:\lab1\IT\ProjectPlan2.docx
C:\lab1\MGMT\john.txt
C:\lab1\MGMT\mike.txt
8 File(s) copied
```

11. **Batch File :**

 Create a batch file named **sys.bat** that will create a file named **systeminfo.txt** with your system hostname ,system model and Total Physical memory information.

Step1: Open notepad and the following command

systeminfo | find "Sytem Model:" >> c:\lab1\systeminfo.txt
systeminfo | find "Total Physical Memory:" >> c:\lab1\systeminfo.txt
systeminfo | find "Registered Owner:" >> c:\lab1\systeminfo.txt

Step2: Save the file as **sys.bat** under c:\LAB1 folder .Choose all files option under Save as Type

Step 3 : From the command prompt under C:\LAB1 folder type **sys.bat**

Step4 : Open C:\lab1\systeminfo.txt file for validation

12. **What is the command to check the connectivity with a remote server .**

     C:\> Ping gtsw01

```
C:\>ping gtsw01

Pinging gtsw01.PeopleNTech.com [192.168.1.102] with 32 bytes of data:

Reply from 192.168.1.102: bytes=32 time<1ms TTL=128
Reply from 192.168.1.102: bytes=32 time<1ms TTL=128
Reply from 192.168.1.102: bytes=32 time<1ms TTL=128
Reply from 192.168.1.102: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.1.102:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>
```

     (Here gtsw01 is the remote server , you can type your own computer name here)

13. **What is the command that display computer IP address ?**
     C:\> ipconfig /all

```
C:\>ipconfig /all
Windows IP Configuration

        Host Name . . . . . . . . . . . . : gtsw01
        Primary Dns Suffix  . . . . . . . : PeopleNTech.com
        Node Type . . . . . . . . . . . . : Unknown
        IP Routing Enabled. . . . . . . . : No
        WINS Proxy Enabled. . . . . . . . : No
        DNS Suffix Search List. . . . . . : PeopleNTech.com

Ethernet adapter Local Area Connection:

        Connection-specific DNS Suffix  . :
        Description . . . . . . . . . . . : Broadcom NetXtreme Gigabit Ethernet
        Physical Address. . . . . . . . . : 00-14-85-A8-69-CB
        Dhcp Enabled. . . . . . . . . . . : No
        IP Address. . . . . . . . . . . . : 192.168.1.102
        Subnet Mask . . . . . . . . . . . : 255.255.255.0
        Default Gateway . . . . . . . . . : 192.168.1.1
        DNS Servers . . . . . . . . . . . : 192.168.1.201
                                            192.168.1.1
```