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Part 1: NETSTAT

Question 1: Using netstat command display the following:

1. All "Executables" involved in creating the connections.

2. The Fully Qualified Domain names

3. Connections specifically for TCP Protocol

4. Connections specifically for UDP Protocol

5. The routing table

1) **All "Executables" involved in creating the connections.**

```
C:\WINDOWS\system32>netstat -b

Active Connections

  Proto  Local Address          Foreign Address        State
  TCP    192.168.91.180:50141   20.198.162.76:https    ESTABLISHED
  WpnService
 [svchost.exe]
  TCP    192.168.91.180:50168   rb-in-f188:5228        ESTABLISHED
 [chrome.exe]
  TCP    192.168.91.180:50537   38:https               ESTABLISHED
 [chrome.exe]
  TCP    192.168.91.180:50542   142.250.185.42:https   TIME_WAIT
  TCP    192.168.91.180:50546   52.97.201.226:https    ESTABLISHED
 [SearchApp.exe]
  TCP    192.168.91.180:50557   20.190.163.29:https    CLOSE_WAIT
 [SearchApp.exe]
  TCP    192.168.91.180:50559   20.190.163.29:https    CLOSE_WAIT
 [SearchApp.exe]
  TCP    192.168.91.180:50560   20.190.163.29:https    CLOSE_WAIT
 [SearchApp.exe]
```

2) The Fully Qualified Domain names

```
C:\WINDOWS\system32>netstat -f

Active Connections

  Proto  Local Address          Foreign Address        State
  TCP    192.168.91.180:50141   20.198.162.76:https    ESTABLISHED
  TCP    192.168.91.180:50168   rb-in-f188.1e100.net:5228  ESTABLISHED
  TCP    192.168.91.180:50537   38.16.148.146.bc.googleusercontent.com:https  ESTABLISHED
  TCP    192.168.91.180:50546   52.97.201.226:https    ESTABLISHED
  TCP    192.168.91.180:50557   20.190.163.29:https    CLOSE_WAIT
  TCP    192.168.91.180:50559   20.190.163.29:https    CLOSE_WAIT
  TCP    192.168.91.180:50560   20.190.163.29:https    CLOSE_WAIT
  TCP    192.168.91.180:50563   mct01s19-in-f14.1e100.net:https  TIME_WAIT
  TCP    192.168.91.180:50566   52.109.88.180:https    TIME_WAIT
  TCP    192.168.91.180:50570   161.69.226.72:https    CLOSE_WAIT
  TCP    192.168.91.180:50572   ec2-3-232-37-52.compute-1.amazonaws.com:https  TIME_WAIT
  TCP    192.168.91.180:50573   arn09s05-in-f3.1e100.net:https  TIME_WAIT
  TCP    192.168.91.180:50574   mct01s19-in-f14.1e100.net:https  TIME_WAIT
  TCP    192.168.91.180:50575   mct01s19-in-f14.1e100.net:https  TIME_WAIT
  TCP    192.168.91.180:50577   217.212.186.35.bc.googleusercontent.com:https  ESTABLISHED
  TCP    192.168.91.180:50578   mct01s10-in-f14.1e100.net:https  ESTABLISHED
  TCP    192.168.91.180:50581   mct01s10-in-f3.1e100.net:https  ESTABLISHED
  TCP    192.168.91.180:50584   mct01s05-in-f3.1e100.net:https  ESTABLISHED
```

3) Connections specifically for TCP Protocol

```
C:\WINDOWS\system32>netstat -s -p TCP

TCP Statistics for IPv4

  Active Opens                    = 14680
  Passive Opens                   = 13
  Failed Connection Attempts      = 982
  Reset Connections               = 3026
  Current Connections             = 8
  Segments Received               = 642758
  Segments Sent                   = 388901
  Segments Retransmitted          = 0

Active Connections

  Proto  Local Address          Foreign Address        State
  TCP    192.168.91.180:50141   20.198.162.76:https    ESTABLISHED
  TCP    192.168.91.180:50168   rb-in-f188:5228        ESTABLISHED
  TCP    192.168.91.180:50537   38:https               ESTABLISHED
  TCP    192.168.91.180:50546   52.97.201.226:https    ESTABLISHED
  TCP    192.168.91.180:50557   20.190.163.29:https    CLOSE_WAIT
  TCP    192.168.91.180:50559   20.190.163.29:https    CLOSE_WAIT
  TCP    192.168.91.180:50560   20.190.163.29:https    CLOSE_WAIT
  TCP    192.168.91.180:50642   40.79.189.59:https     TIME_WAIT
  TCP    192.168.91.180:50643   mct01s06-in-f67:https  ESTABLISHED
```

4) Connections specifically for UDP Protocol

```
C:\WINDOWS\system32>netstat -s -p UDP

UDP Statistics for IPv4

  Datagrams Received    = 1094732
  No Ports              = 6242
  Receive Errors        = 25083
  Datagrams Sent        = 408886

Active Connections

  Proto  Local Address          Foreign Address        State

C:\WINDOWS\system32>
```

5) The routing tables

```
C:\WINDOWS\system32>netstat -r
===========================================================================
Interface List
 11...92 cd b6 48 c4 33 ......Microsoft Wi-Fi Direct Virtual Adapter
  8...a2 cd b6 48 c4 33 ......Microsoft Wi-Fi Direct Virtual Adapter #2
  4...90 cd b6 48 c4 33 ......Qualcomm Atheros QCA61x4A Wireless Network Adapter
  1...........................Software Loopback Interface 1
===========================================================================

IPv4 Route Table
===========================================================================
Active Routes:
Network Destination        Netmask          Gateway       Interface  Metric
          0.0.0.0          0.0.0.0      192.168.91.1    192.168.91.180     35
        127.0.0.0        255.0.0.0         On-link         127.0.0.1    331
        127.0.0.1  255.255.255.255         On-link         127.0.0.1    331
  127.255.255.255  255.255.255.255         On-link         127.0.0.1    331
     192.168.91.0    255.255.255.0         On-link    192.168.91.180    291
   192.168.91.180  255.255.255.255         On-link    192.168.91.180    291
   192.168.91.255  255.255.255.255         On-link    192.168.91.180    291
        224.0.0.0        240.0.0.0         On-link         127.0.0.1    331
        224.0.0.0        240.0.0.0         On-link    192.168.91.180    291
  255.255.255.255  255.255.255.255         On-link         127.0.0.1    331
  255.255.255.255  255.255.255.255         On-link    192.168.91.180    291
===========================================================================
Persistent Routes:
  None

IPv6 Route Table
===========================================================================
Active Routes:
 If Metric Network Destination      Gateway
  1    331 ::1/128                  On-link
  4    291 fe80::/64                On-link
  4    291 fe80::a55c:695f:70ef:5df8/128
                                    On-link
  1    331 ff00::/8                 On-link
  4    291 ff00::/8                 On-link
===========================================================================
Persistent Routes:
  None
```

Question 2: Using NET USER command perform the following:

1. Create a NEW USER.

a. Name format: name{Reg} b. Example: adnan201764

2. Assign the time of 10AM to 3PM for Monday to Wednesday.

3. Create New localgroup:

a. Name format: localgroup{Reg} b. Example: localgroup201764

4. Add User to the newly created localgroup

5. Display/View the information about the User

1. Create a NEW USER.

a. Name format: name {Reg} b. Example: adnan201764

```
C:\WINDOWS\system32>net user ikram190786 /add
The command completed successfully.
```

2. Assign the time of 10AM to 3PM for Monday to Wednesday.

```
C:\WINDOWS\system32>net user ikram190786 /time:M-W,10am-3pm
The command completed successfully.
```

3. Create New localgroup:

a. Name format: localgroup{Reg}   b. Example: localgroup201764

```
C:\WINDOWS\system32>net localgroup 190786 /add
The command completed successfully.
```

4. Add User to the newly created localgroup

```
C:\WINDOWS\system32>net localgroup 190786 ikram190786 /add
The command completed successfully.
```

5. Display/View the information about the User

```
C:\WINDOWS\system32>net localgroup 190786
Alias name       190786
Comment

Members

-------------------------------------------------
ikram190786
The command completed successfully.
```

Part 3: NET SHARE

Question 2: Using NET SHARE command perform the following:

1. Create a directory:

a. Name format: name{Reg} b. Example: name201764

2. Create a NEW SHARE for this directory.

a. Name format: sharename{Reg} b. Example: sharename201764

3. Assign the time of 10AM to 3PM for Monday to Wednesday.

4. Create New localgroup:

a. Name format: localgroup{Reg} b. Example: localgroup201764

5. Add User to the newly created localgroup

6. Display/View information about the User

1. Create a directory:

a. Name format: name{Reg} b. Example: name201764

```
C:\>mkdir ikram190786

C:\>dir
 Volume in drive C is Window?
 Volume Serial Number is B8E8-06B8

 Directory of C:\

10/30/2021  11:50 AM    <DIR>          ikram190786
09/11/2021  06:46 PM    <DIR>          Intel
09/11/2021  06:46 PM    <DIR>          logs
09/17/2021  11:12 AM    <DIR>          MinGW
12/07/2019  02:14 PM    <DIR>          PerfLogs
10/13/2021  01:26 PM    <DIR>          Program Files
10/01/2021  04:54 PM    <DIR>          Program Files (x86)
10/20/2021  02:36 PM    <DIR>          Users
10/17/2021  01:57 PM    <DIR>          Windows
               0 File(s)              0 bytes
               9 Dir(s)  44,676,468,736 bytes free
```

2. Create a NEW SHARE for this directory.

a. Name format: sharename{Reg} b. Example: sharename201764

```
C:\>net share 190786=c:\Mikram190786 /grant:everyone,READ /users:2 /remark:"Share Folder."
190786 was shared successfully.


C:\>net share

Share name    Resource                         Remark

-------------------------------------------------------------------------------
ADMIN$        C:\WINDOWS                        Remote Admin
C$            C:\                               Default share
D$            D:\                               Default share
IPC$                                            Remote IPC
190786        c:\Mikram190786                   Share Folder.
The command completed successfully.
```

3. Assign the time of 10AM to 3PM for Monday to Wednesday.

Command related to the time in NET SHARE is not found.

4. Create New localgroup:

a. Name format: localgroup{Reg} b. Example: localgroup201764

Command related to localgroup in NET SHARE is not found.

5. Add User to the newly created localgroup

```
C:\>net user

User accounts for \\MR-LUCY

-------------------------------------------------------------------------
Administrator            DefaultAccount          Guest
ikram190786              Mr LucY                 WDAGUtilityAccount
The command completed successfully.
```