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Subject: Lab Computer Networks

Assignment 2

Part 1: NETSTAT

Question 1: Using netstat command display the following:

• All "Executables" involved in creating the connections.

```
Administrator: Command Prompt
Microsoft Windows [Version 10.0.16299.1087]
(c) 2017 Microsoft Corporation. All rights reserved.
C:\Windows\system32>cd../../
C:\>netstat -b
Active Connections
 Proto Local Address
                              Foreign Address
                                                     State
       127.0.0.1:49192
                              DESKTOP-QSOB00K:27300 SYN SENT
 TCP
[DCIService.exe]
                                                     ESTABLISHED
 TCP
        192.168.1.25:49155
                              a-0001:https
[SearchUI.exe]
        192.168.1.25:49157
                              bingforbusiness:https ESTABLISHED
 TCP
[SearchUI.exe]
        192.168.1.25:49160
                               20.36.72.49:https
                                                     ESTABLISHED
[SearchUI.exe]
        192.168.1.25:49162
                               52.113.196.254:https
                                                     ESTABLISHED
[SearchUI.exe]
        192.168.1.25:49163
                               13.107.3.254:https
                                                     ESTABLISHED
[SearchUI.exe]
        192.168.1.25:49169
                               204.79.197.222:https
                                                     ESTABLISHED
[SearchUI.exe]
        192.168.1.25:49173
                              13.107.6.163:https
                                                     ESTABLISHED
[SearchUI.exe]
        192.168.1.25:49174
                              182.176.155.18:https
                                                     ESTABLISHED
[SearchUI.exe]
        192.168.1.25:49176
                              a104-93-16-59:https
                                                     CLOSE_WAIT
[SearchUI.exe]
        192.168.1.25:49186
                                                     ESTABLISHED
                              13.107.42.254:https
[SearchUI.exe]
        192.168.1.25:62910
                              20.197.71.89:https
                                                     ESTABLISHED
 WpnService
[svchost.exe]
       192.168.1.25:65310
 TCP
                              13.107.3.254:https
                                                     ESTABLISHED
[SearchUI.exe]
                                                     TIME_WAIT
      192.168.1.25:65459
                               a-0001:https
 TCP
 TCP
        192.168.1.25:65461
                              bingforbusiness:https TIME_WAIT
 TCP
       192.168.1.25:65475
```

The Fully Qualified Domain names

```
Administrator: Command Prompt
Microsoft Windows [Version 10.0.16299.1087]
(c) 2017 Microsoft Corporation. All rights reserved.
C:\Windows\system32>cd../../
C:\>netstat -f
Active Connections
  Proto Local Address
                                Foreign Address
                                                        State
         192.168.1.25:62910
                                20.197.71.89:https
                                                        ESTABLISHED
  TCP
         192.168.1.25:64037
                                a-0001.a-msedge.net:https ESTABLISHED
  TCP
         192.168.1.25:64039
                                                        ESTABLISHED
                                204.79.197.222:https
  TCP
        192.168.1.25:64041
                                bingforbusiness.com:https
                                                            ESTABLISHED
  TCP
         192.168.1.25:64064
                                20.140.48.71:https
                                                        ESTABLISHED
  TCP
         192.168.1.25:64078
                                13.107.3.254:https
                                                        ESTABLISHED
  TCP
         192.168.1.25:64080
                                152.199.19.161:https
                                                        ESTABLISHED
  TCP
        192.168.1.25:64084
                                13.107.18.254:https
                                                        ESTABLISHED
  TCP
         192.168.1.25:64085
                                13.107.6.254:https
                                                        ESTABLISHED
  TCP
         192.168.1.25:64091
                                152.199.19.161:https
                                                        ESTABLISHED
  TCP
        192.168.1.25:64107
                                52.109.12.22:https
                                                        ESTABLISHED
                                52.109.8.19:https
  TCP
        192.168.1.25:64117
                                                        ESTABLISHED
         192.168.1.25:64123
  TCP
                                13.107.136.254:https
                                                        ESTABLISHED
  TCP
         192.168.1.25:64125
                                13.107.136.254:https
                                                        ESTABLISHED
```

• Connections specifically for TCP Protocol

```
Administrator: Command Prompt
C:\>netstat -t
Active Connections
 Proto Local Address
                               Foreign Address
                                                                     Offload State
                                                     State
        127.0.0.1:64226
                               DESKTOP-QSOB00K:27300 SYN SENT
 TCP
                                                                     InHost
 TCP
        192.168.1.25:62910
                               20.197.71.89:https
                                                     ESTABLISHED
                                                                     InHost
 TCP
        192.168.1.25:64037
                               a-0001:https
                                                     TIME_WAIT
                                                                     InHost
 TCP
        192.168.1.25:64107
                              52.109.12.22:https
                                                     TIME_WAIT
                                                                     InHost
                              52.109.8.19:https
 TCP
        192.168.1.25:64117
                                                     TIME_WAIT
                                                                     InHost
 TCP
        192.168.1.25:64123
                                                     ESTABLISHED
                              13.107.136.254:https
                                                                     InHost
 TCP
        192.168.1.25:64125
                                                     ESTABLISHED
                              13.107.136.254:https
                                                                     InHost
                              13.107.3.254:https
 TCP
        192.168.1.25:64185
                                                     ESTABLISHED
                                                                     InHost
 TCP
        192.168.1.25:64186
                              a-0001:https
                                                     ESTABLISHED
                                                                     InHost
 TCP
        192.168.1.25:64187
                              InHost
        192.168.1.25:64188
 TCP
                               204.79.197.222:https
                                                     ESTABLISHED
                                                                     InHost
 TCP
        192.168.1.25:64194
                              13.107.6.254:https
                                                     ESTABLISHED
                                                                     InHost
        192.168.1.25:64196
                              152.199.19.161:https
                                                     ESTABLISHED
                                                                     InHost
```

Connections specifically for UDP Protocol

```
Administrator: Command Prompt
C:\>netstat -u
Displays protocol statistics and current TCP/IP network connections.
NETSTAT [-a] [-b] [-e] [-f] [-n] [-o] [-p proto] [-r] [-s] [-x] [-t] [interval]
                Displays all connections and listening ports.
  -a
                Displays the executable involved in creating each connection or
                listening port. In some cases well-known executables host
                multiple independent components, and in these cases the
                sequence of components involved in creating the connection
                or listening port is displayed. In this case the executable
                name is in [] at the bottom, on top is the component it called,
                and so forth until TCP/IP was reached. Note that this option
                can be time-consuming and will fail unless you have sufficient
                Displays Ethernet statistics. This may be combined with the -s
  -e
                option.
                Displays Fully Qualified Domain Names (FQDN) for foreign
  -f
                addresses.
                Displays addresses and port numbers in numerical form.
                Displays the owning process ID associated with each connection.
  -p proto
                Shows connections for the protocol specified by proto; proto
                may be any of: TCP, UDP, TCPv6, or UDPv6. If used with the -s option to display per-protocol statistics, proto may be any of:
                IP, IPv6, ICMP, ICMPv6, TCP, TCPv6, UDP, or UDPv6.
                Displays all connections, listening ports, and bound
  -q
                nonlistening TCP ports. Bound nonlistening ports may or may not
                be associated with an active connection.
                Displays the routing table.
                Displays per-protocol statistics. By default, statistics are
  -5
                shown for IP, IPv6, ICMP, ICMPv6, TCP, TCPv6, UDP, and UDPv6;
                the -p option may be used to specify a subset of the default.
                Displays the current connection offload state.
                Displays NetworkDirect connections, listeners, and shared
                endpoints.
                Displays the TCP connection template for all connections.
                Cannot be combined with the other options.
  interval
                Redisplays selected statistics, pausing interval seconds
                between each display. Press CTRL+C to stop redisplaying
                statistics. If omitted, netstat will print the current
                configuration information once.
```

• The routing table

```
Administrator: Command Prompt
 C:\>netstat -r
 4...50 b7 c3 95 93 61 .....Realtek PCIe GBE Family Controller
 12...12 b7 c3 f5 d4 55 .....Microsoft Wi-Fi Direct Virtual Adapter
 2...22 b7 c3 f5 d4 55 .....Microsoft Wi-Fi Direct Virtual Adapter #2
 10...50 b7 c3 f5 d4 55 .....Qualcomm Atheros AR9485WB-EG Wireless Network Adapter
 1.....Software Loopback Interface 1
 13...00 00 00 00 00 00 00 e0 Microsoft Teredo Tunneling Adapter
 ______
IPv4 Route Table
 ._____
255.255.255.255 255.255.255 On-link 127.0.0.1
255.255.255.255 255.255.255 On-link 192.168.1.25
 Persistent Routes:
 None
IPv6 Route Table
Active Routes:
 If Metric Network Destination
                         Gateway
    331 ::1/128
                          On-link
 10
    306 fe80::/64
                          On-link
    306 fe80::9ca6:3055:b266:4225/128
 10
                         On-link
     331 ff00::/8
 10
     306 ff00::/8
                          On-link
```

Part 2: NET USER

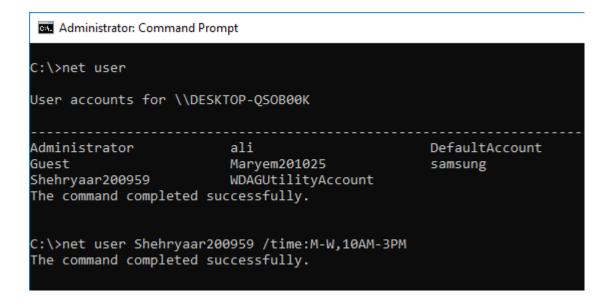
Question 2: Using NET USER command perform the following:

Create a NFW USFR.

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

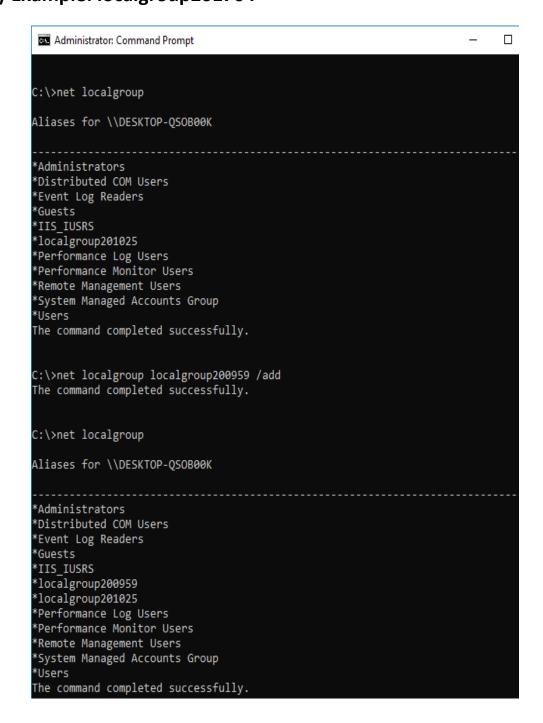
| Administrator: Command Prompt | | |
|--|------------------------------------|---------------------------|
| C:\>net user | | |
| User accounts for \\DESKTOP-QSOB00K | | |
| Administrator Guest WDAGUtilityAccount The command completed suc | Maryem201025 | DefaultAccount samsung |
| C:\>net user Shehryaar200959 457 /add The command completed successfully. | | |
| C:\>net user | | |
| User accounts for \\DESKTOP-QSOB00K | | |
| | Maryem201025 WDAGUtilityAccount | DefaultAccount samsung |

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



• Create New localgroup:

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



Add User to the newly created localgroup

Select Administrator: Command Prompt

The command completed successfully.

C:\>net localgroup localgroup200959 Shehryaar200959 /add
The command completed successfully.

Display/View the information about the User

Administrator: Command Prompt

C:\>net user Shehryaar200959

User name Shehryaar200959

Full Name Comment

User's comment

Country/region code 000 (System Default)

Account active Yes Account expires Never

Password last set 10/31/2021 6:19:46 AM
Password expires 12/12/2021 6:19:46 AM
Password changeable 10/31/2021 6:19:46 AM

Password required Yes User may change password Yes

Workstations allowed All

Logon script User profile Home directory

Last logon Never

Logon hours allowed Monday 10:00:00 AM - 3:00:00 PM

Tuesday 10:00:00 AM - 3:00:00 PM Wednesday 10:00:00 AM - 3:00:00 PM

Local Group Memberships *localgroup200959 *Users

Global Group memberships *None
The command completed successfully.

Part 3: NET SHARE

Question 3: Using NET USER command perform the following:

- Create a directory:
 - a) Name format: name{Reg}
 - b) Example: name201764

C:\>mkdir Shehryaar200959

C:\>cd Shehryaar200959

C:\Shehryaar200959>

- Create a NEW SHARE for this directory.
 - a) Name format: sharename{Reg}
 - b) Example: sharename201764

C:\Shehryaar200959>net share shareShehryaar200959=C:\Shehryaar200959 /grant:everyone,FULL shareShehryaar200959 was shared successfully.

C:\Shehryaar200959>net share shareShehryaar200959

Share name shareShehryaar200959 Path C:\Shehryaar200959

Remark

Maximum users No limit

Users

Caching Manual caching of documents

Permission Everyone, FULL

The command completed successfully.