# LAB: NetBIOS

In **Windows Server 2019**, through the CLI the following command was issued:

```
C:\Users\Administrator>nbtstat -a 192.168.32.4

Ethernet:
Node IpAddress: [192.168.32.3] Scope Id: []

    Host not found.
```

nbtstat → stand for NetBIOS status, which allow us to check the remote computer names of the NetBIOS table.

As shown in the above screenshot the result was: "Host not found."

This is because the firewall in Windows 10 blocks the requests of the server. Therefore, the firewall in the virtual machine is turned off to get the result.
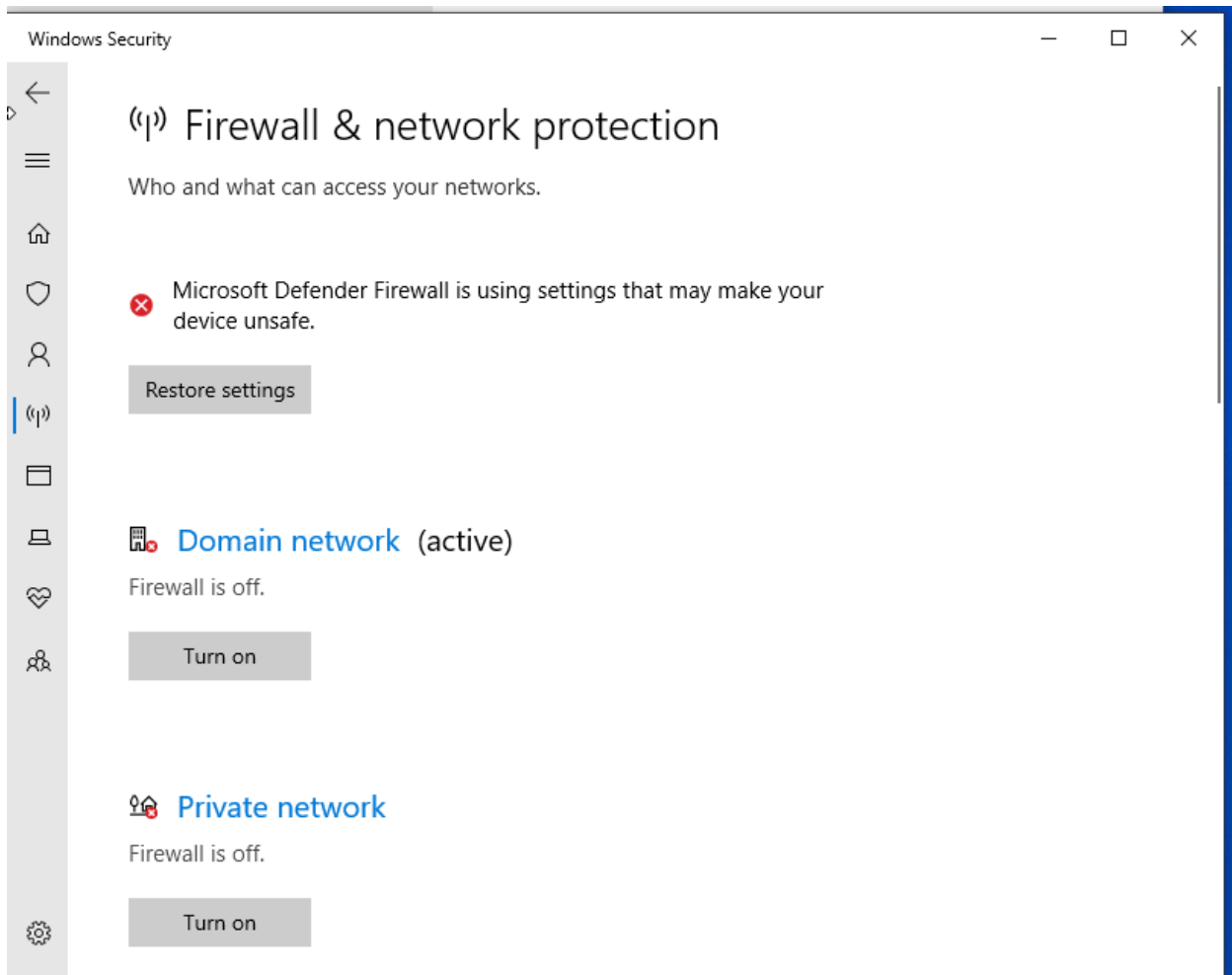
Once again, the command is executed, the result is as follows:

-a → Displays the NetBIOS name table of a remote computer, where *"remotename"* is the NetBIOS computer name of the remote computer. The NetBIOS name table is the list of NetBIOS names that correspond to NetBIOS applications running on that computer.

```
C:\Users\Administrator>nbtstat -a 192.168.32.4

Ethernet:
Node IpAddress: [192.168.32.3] Scope Id: []

           NetBIOS Remote Machine Name Table

       Name               Type         Status
    ---------------------------------------------
       USER1           <20>  UNIQUE      Registered
       USER1           <00>  UNIQUE      Registered
       CODE            <00>  GROUP       Registered

       MAC Address = 08-00-27-70-8F-75


C:\Users\Administrator>
```

-c → Displays the contents of the NetBIOS name cache, the table of NetBIOS names and their resolved IP addresses.

```
C:\Users\Administrator>nbtstat -c

Ethernet:
Node IpAddress: [192.168.32.3] Scope Id: []

               NetBIOS Remote Cache Name Table

       Name               Type        Host Address     Life [sec]
    ------------------------------------------------------------
       USER1           <20>  UNIQUE       192.168.32.4          463

C:\Users\Administrator>
```

In **Windows 10**, we executed the same commands done in windows server:

```
C:\Users\reemalmarzooqi>nbtstat -a 192.168.32.3

Ethernet:
Node IpAddress: [192.168.32.4] Scope Id: []

          NetBIOS Remote Machine Name Table

      Name               Type         Status
   ---------------------------------------------
      OM           <20>  UNIQUE     Registered
      OM           <00>  UNIQUE     Registered
      CODE         <00>  GROUP      Registered
      CODE         <1C>  GROUP      Registered
      CODE         <1B>  UNIQUE     Registered

   MAC Address = 08-00-27-9F-72-2D


C:\Users\reemalmarzooqi>
```

```
C:\Users\reemalmarzooqi>nbtstat -c

Ethernet:
Node IpAddress: [192.168.32.4] Scope Id: []

            NetBIOS Remote Cache Name Table

      Name               Type      Host Address    Life [sec]
   --------------------------------------------------------
      OM           <20>  UNIQUE      192.168.32.3         574

C:\Users\reemalmarzooqi>
```