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Networks Lab 2

Ping Command

```
Microsoft Windows [Version 10.0.22631.3085]
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C:\Users\ASUS>ping 192.168.10.10

Pinging 192.168.10.10 with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 192.168.10.10:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\Users\ASUS>ping google.com

Pinging google.com [142.250.201.46] with 32 bytes of data:
Reply from 142.250.201.46: bytes=32 time=51ms TTL=110
Reply from 142.250.201.46: bytes=32 time=56ms TTL=110
Reply from 142.250.201.46: bytes=32 time=54ms TTL=110
Reply from 142.250.201.46: bytes=32 time=80ms TTL=110

Ping statistics for 142.250.201.46:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 51ms, Maximum = 80ms, Average = 60ms

C:\Users\ASUS>Trace rt
'Trace' is not recognized as an internal or external command,
operable program or batch file.

C:\Users\ASUS>Tracert google.com

Tracing route to google.com [142.250.201.46]
over a maximum of 30 hops:

  1     4 ms     1 ms     1 ms  10.40.32.3
  2     4 ms     2 ms     2 ms  10.1.101.11
  3     6 ms     3 ms     3 ms  10.1.102.11
  4     7 ms     4 ms     4 ms  10.1.98.6
```

Trace Command

```
Tracing route to google.com [142.250.201.46]
over a maximum of 30 hops:

  1     4 ms     1 ms     1 ms  10.40.32.3
  2     4 ms     2 ms     2 ms  10.1.101.11
  3     6 ms     3 ms     3 ms  10.1.102.11
  4     7 ms     4 ms     4 ms  10.1.98.6
  5     7 ms     4 ms     4 ms  172.19.134.177
  6    29 ms    26 ms    12 ms  172.31.253.161
  7    13 ms    12 ms    12 ms  172.21.29.142
  8    53 ms    51 ms    49 ms  xe2-2-0.marsiglia2.mar.seabone.net [213.144.170.58]
  9    53 ms    51 ms    49 ms  213.144.170.113
 10    56 ms    46 ms    47 ms  209.85.172.230
 11    52 ms    90 ms    51 ms  192.178.105.207
 12    53 ms    49 ms    48 ms  216.239.35.161
 13    54 ms    53 ms    49 ms  mrs08s20-in-f14.1e100.net [142.250.201.46]

Trace complete.

C:\Users\ASUS>Route print
===========================================================================
Interface List
  8...d4 5d 64 59 82 26 ......Intel(R) Ethernet Connection (10) I219-V
 19...00 ff f1 d7 26 de ......TAP-Windows Adapter V9
 12...c8 09 a8 0d 15 c0 ......Microsoft Wi-Fi Direct Virtual Adapter
 10...ca 09 a8 0d 15 bf ......Microsoft Wi-Fi Direct Virtual Adapter #2
 15...c8 09 a8 0d 15 bf ......Intel(R) Wi-Fi 6 AX201 160MHz
  9...c8 09 a8 0d 15 c3 ......Bluetooth Device (Personal Area Network)
  1...........................Software Loopback Interface 1
===========================================================================

IPv4 Route Table
===========================================================================
Active Routes:
Network Destination        Netmask          Gateway       Interface  Metric
          0.0.0.0          0.0.0.0      10.40.32.1    10.40.44.173     35
       10.40.32.0    255.255.224.0         On-link    10.40.44.173    291
     10.40.44.173  255.255.255.255         On-link    10.40.44.173    291
     10.40.63.255  255.255.255.255         On-link    10.40.44.173    291
        127.0.0.0        255.0.0.0         On-link       127.0.0.1    331
```

Route Command

```
     10.40.44.173  255.255.255.255      On-link     10.40.44.173     291
     10.40.63.255  255.255.255.255      On-link     10.40.44.173     291
        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
        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     10.40.44.173     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     10.40.44.173     291
===========================================================================
Persistent Routes:
  None

IPv6 Route Table
===========================================================================
Active Routes:
 If Metric Network Destination      Gateway
  1    331 ::1/128                  On-link
 15    291 fe80::/64                On-link
 15    291 fe80::b215:3b37:6fd3:f02f/128
                                    On-link
  1    331 ff00::/8                 On-link
 15    291 ff00::/8                 On-link
===========================================================================
Persistent Routes:
  None

C:\Users\ASUS>ipconfig

Windows IP Configuration


Ethernet adapter Ethernet:

   Media State . . . . . . . . . . . : Media disconnected
   Connection-specific DNS Suffix  . :

Unknown adapter Local Area Connection:

   Media State . . . . . . . . . . . : Media disconnected
```

IP Config Command

```
C:\Users\ASUS>ipconfig

Windows IP Configuration


Ethernet adapter Ethernet:

   Media State . . . . . . . . . . . : Media disconnected
   Connection-specific DNS Suffix  . :

Unknown adapter Local Area Connection:

   Media State . . . . . . . . . . . : Media disconnected
   Connection-specific DNS Suffix  . :

Wireless LAN adapter Local Area Connection* 1:

   Media State . . . . . . . . . . . : Media disconnected
   Connection-specific DNS Suffix  . :

Wireless LAN adapter Local Area Connection* 2:

   Media State . . . . . . . . . . . : Media disconnected
   Connection-specific DNS Suffix  . :

Wireless LAN adapter Wi-Fi:

   Connection-specific DNS Suffix  . : aucegypt.edu
   Link-local IPv6 Address . . . . . : fe80::b215:3b37:6fd3:f02f%15
   IPv4 Address. . . . . . . . . . . : 10.40.44.173
   Subnet Mask . . . . . . . . . . . : 255.255.224.0
   Default Gateway . . . . . . . . . : 10.40.32.1

Ethernet adapter Bluetooth Network Connection:

   Media State . . . . . . . . . . . : Media disconnected
   Connection-specific DNS Suffix  . :

C:\Users\ASUS>
```