

```

Microsoft Windows [Version 10.0.10240]
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D:\Users\knewman1>tracert 97.86.170.156

Tracing route to 97-86-170-156.static.stls.mo.charter.com [97.86.170.156]
over a maximum of 30 hops:

  0  1    2 ms    3 ms    3 ms  10.150.0.1
  1  2   <1 ms   <1 ms   <1 ms  10.150.0.2
  2  3    *      *      *      Request timed out.
  3  4    *      *      *      Request timed out.
  4  5    *      *      *      Request timed out.
  5  6    *      *      *      Request timed out.
  6  7    *      *      *      Request timed out.
  7  8    *      *      *      Request timed out.
  8  9    *      *      *      Request timed out.
  9 10    *      *      *      Request timed out.
 10 11    *      *      *      Request timed out.
 11 12    *      *      *      Request timed out.
 12 13    *      *      *      Request timed out.
 13 14    *      *      *      Request timed out.
 14 15    *      *      *      Request timed out.
 15 16    *      *      *      Request timed out.
 16 17    *      *      *      Request timed out.
 17 18    *      *      *      Request timed out.
 18 19    *      *      *      Request timed out.
 19 20    *      *      *      Request timed out.
 20 21    *      *      *      Request timed out.
 21 22    *      *      *      Request timed out.
 22 23    *      *      *      Request timed out.
 23 24    *      *      *      Request timed out.
 24 25    *      *      *      Request timed out.
 25 26    *      *      *      Request timed out.
 26 27    *      *      *      Request timed out.
 27 28    *      *      *      Request timed out.
 28 29    *      *      *      Request timed out.
 29 30    *      *      *      Request timed out.
 30 31    *      *      *      Request timed out.

Trace complete.

D:\Users\knewman1>

```

Based on your trace route results in Project 1, draw a network diagram of the Maryville network from your VM's point of view. The network diagram should include the following, at a minimum:

Icon for your VM

Subnet for your VM

Switch connecting your VM to the network

Default router

Other subnets and routers in the path to the Internet

The Public-facing router

Router interfaces should be labeled with all known IP addresses

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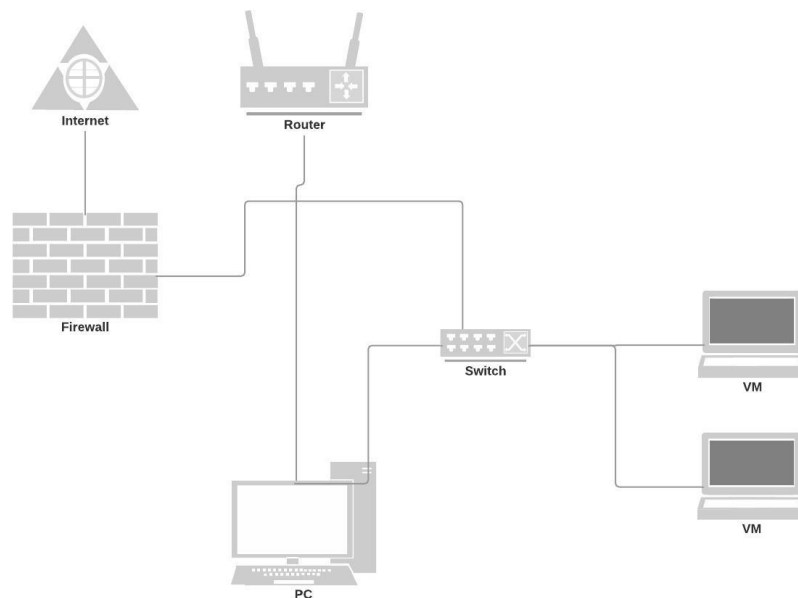
Other subnets and routers in the path to the Internet

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Router interfaces should be labeled with all known IP addresses

GENERIC NETWORK DIAGRAM

Stdnt | December 17, 2018



Perform a trace route to adjd.gov.ae.

How many hops does it take to get to the destination?

30

What is the destination IP address?

213.42.161.38

What is the last hop in the United States, before the traffic leaves the country?

96.34.3.11

Why do some of the hops "time out"?

The ping is blocked, and the server doesn't respond at all resulting in request timed out.

```
Command Prompt
Microsoft Windows [Version 10.0.10240]
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D:\Users\knewman1>tracert adjd.gov.ae

Tracing route to adjd.gov.ae [5.194.253.43]
over a maximum of 30 hops:

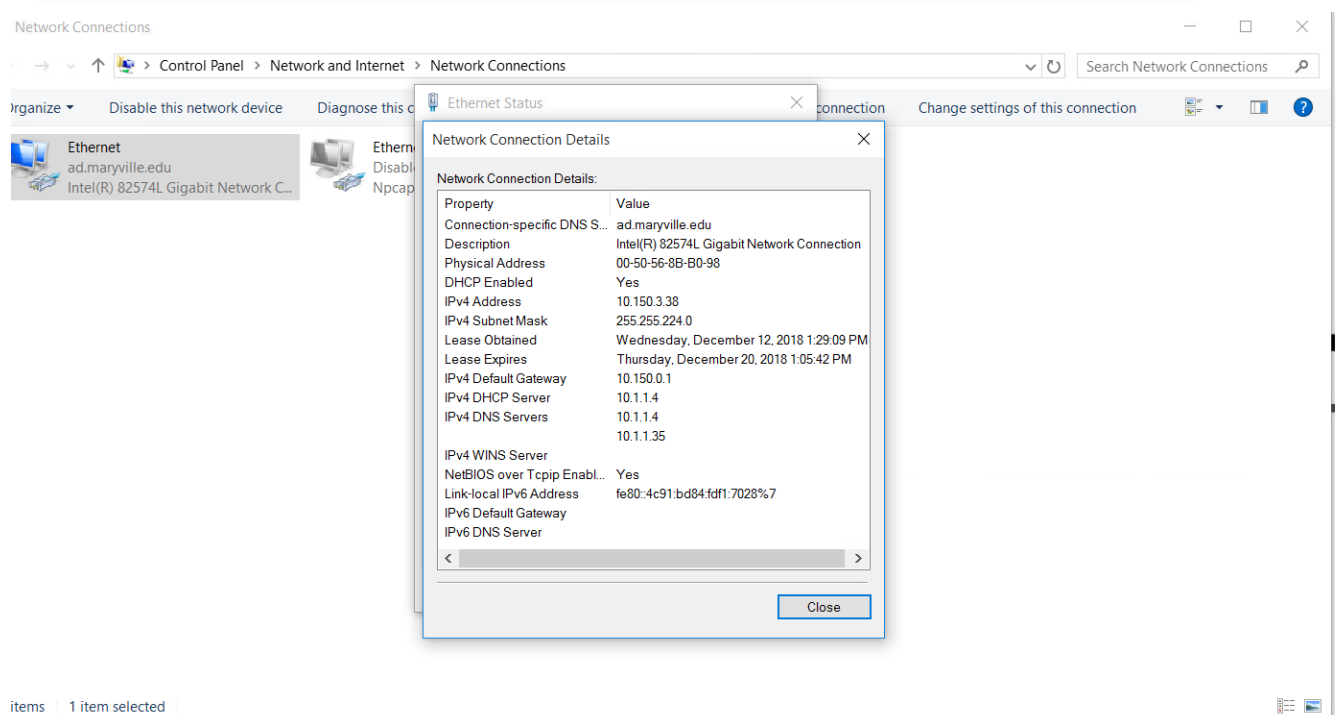
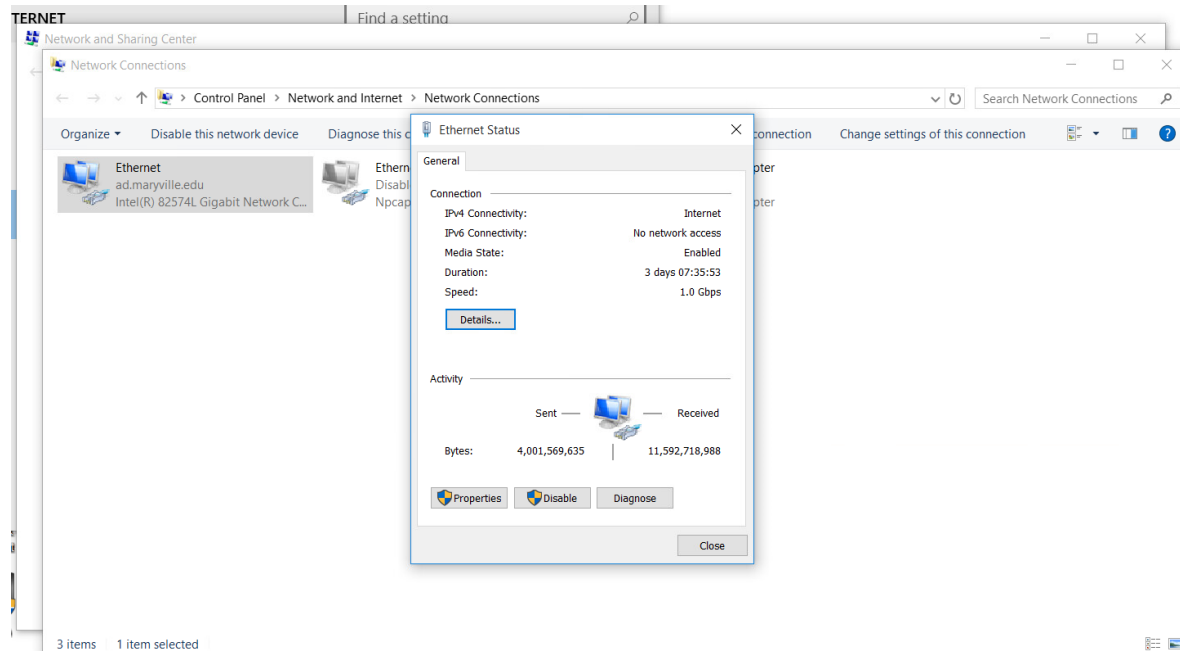
  0  1 ms    1 ms    1 ms    10.150.0.1
  1  <1 ms   <1 ms   <1 ms   10.150.0.2
  2  *       *       *       Request timed out.
  3  <1 ms   <1 ms   <1 ms   10.50.0.254
  4  1 ms    1 ms    1 ms    97-86-165-133.static.stls.mo.charter.com [97.86.165.133]
  5  1 ms    1 ms    1 ms    dtr02tncomo-bue-100.tnco.mo.charter.com [96.34.50.164]
  6  1 ms    1 ms    1 ms    crr01olvemo-bue-5.olve.mo.charter.com [96.34.50.207]
  7  1 ms    7 ms    4 ms    bbr01olvemo-bue-70.olve.mo.charter.com [96.34.2.164]
  8  8 ms    7 ms    7 ms    bbr02chcgil-bue-2.chcg.il.charter.com [96.34.0.12]
  9  7 ms    7 ms    7 ms    prr01chcgil-bue-4.chcg.il.charter.com [96.34.3.11]
 10  7 ms    7 ms    7 ms    4.68.127.133
 11 111 ms   111 ms   111 ms   ae-7-3101.bar1.marseille1.level3.net [4.69.141.190]
 12 111 ms   111 ms   111 ms   ae-7-3101.bar1.marseille1.level3.net [4.69.141.190]
 13 265 ms   265 ms   265 ms   212.73.201.26
 14 212 ms   212 ms   212 ms   195.229.1.71
 15 216 ms   213 ms   213 ms   86.96.148.36
 16 *       277 ms   274 ms   213.42.161.38
 17 *       *       *       Request timed out.
 18 *       *       *       Request timed out.
 19 *       *       *       Request timed out.
 20 *       *       *       Request timed out.
 21 *       *       *       Request timed out.
 22 *       *       *       Request timed out.
```

```
Command Prompt

10  7 ms    7 ms    7 ms    prr01chcgil-bue-4.chcg.il.charter.com [96.34.3.11]
11  7 ms    7 ms    7 ms    4.68.127.133
12 111 ms   111 ms   111 ms   ae-7-3101.bar1.marseille1.level3.net [4.69.141.190]
13 111 ms   111 ms   111 ms   ae-7-3101.bar1.marseille1.level3.net [4.69.141.190]
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21 *       *       *       Request timed out.
22 *       *       *       Request timed out.
23 *       *       *       Request timed out.
24 *       *       *       Request timed out.
25 *       *       *       Request timed out.
26 *       *       *       Request timed out.
27 *       *       *       Request timed out.
28 *       *       *       Request timed out.
29 *       *       *       Request timed out.
30 *       *       *       Request timed out.

Trace complete.

D:\Users\knewman1>
```



You are experiencing some network issues on your VM and need to perform some troubleshooting.

Determine the following for your VM:

Current connection speed.

1.0 Gbps

Speed and Duplex settings.

Are Jumbo Packets enabled?

Is the Windows Firewall enabled?

What is the IPv6 Address of your VM?

fe 80: 4c91:bd84.fdf1:7028%7

Is NetBIOS over TCP enabled?

Yes