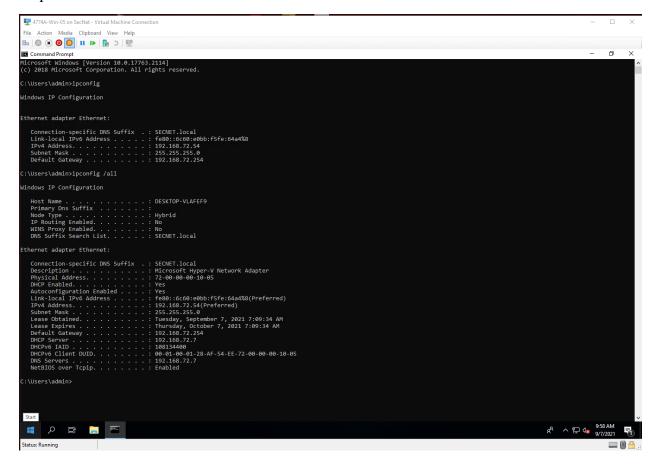
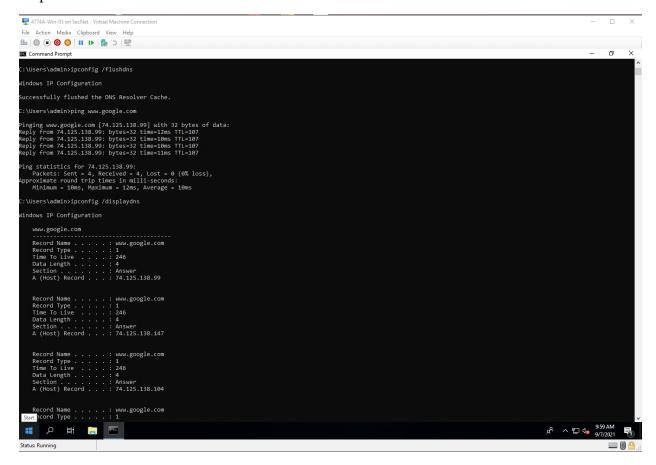
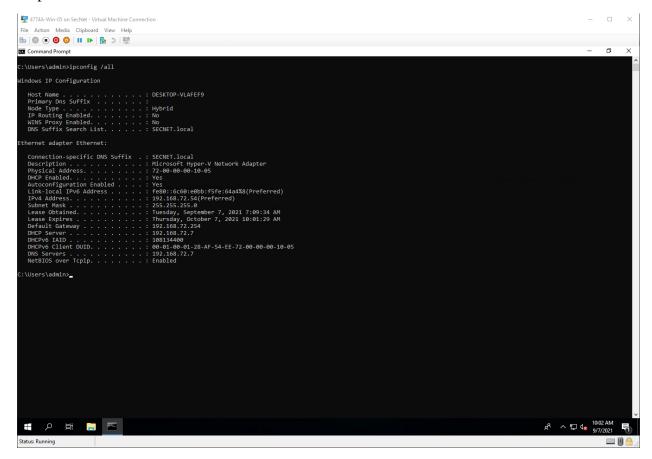
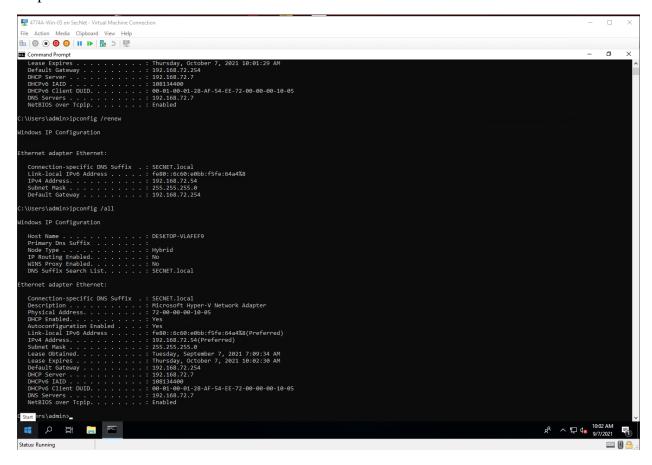
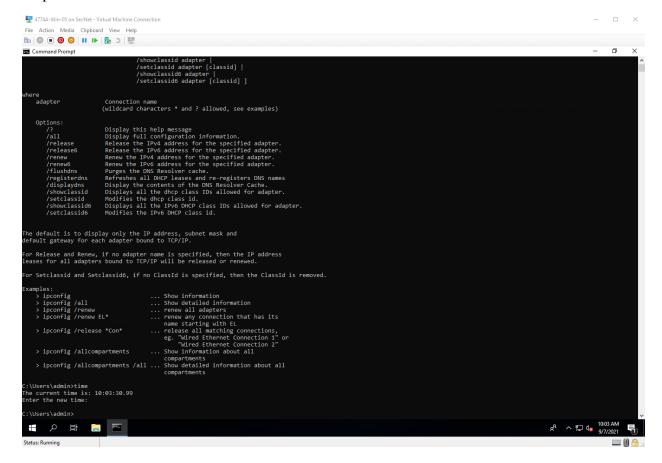
## 1.2 IP Config











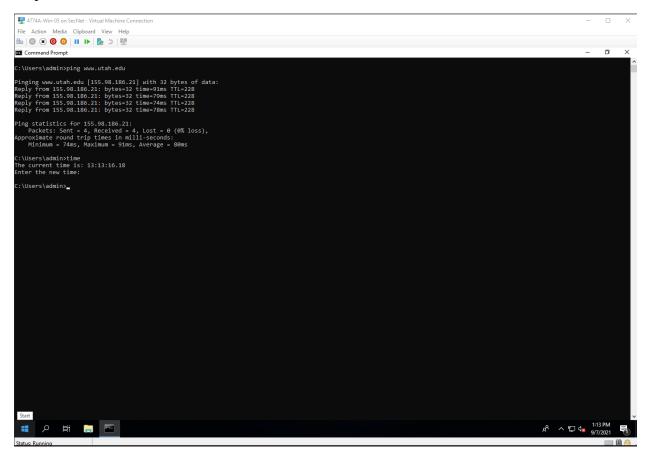
#### **Project Questions**

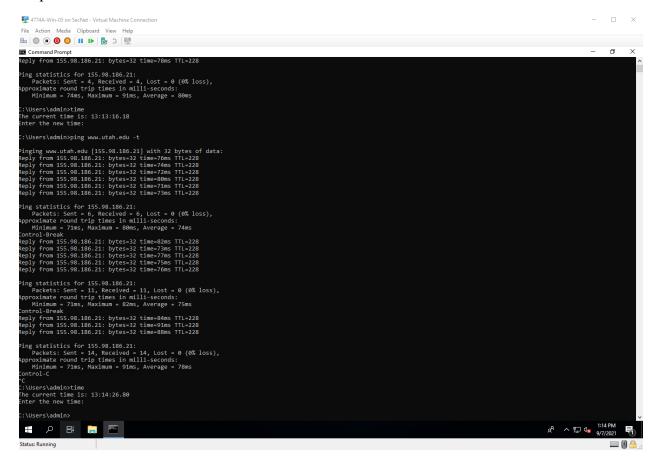
- 1. My IP address is 192.168.72.54
- 2. My MAC address is 72:00:00:00:10:05
- 3. My default gateway is at 192.168.72.254
- 4. My subnet mask is 255.255.255.0 or /24

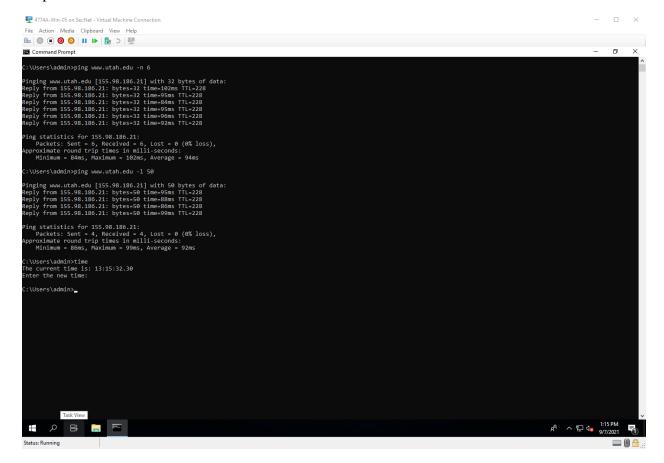
#### **Thought Questions**

- 1. The MAC addresses are specific to the device and doesn't change. IP addresses are network specific meaning that they can vary depending on what network the device is on.
- 2. The default gateway is how devices on this network connect to devices outside this network
- 3. DNS servers translate domain names into IP addresses.
- 4. Subnet mask defines how a network is divided.

## 1.3 Ping







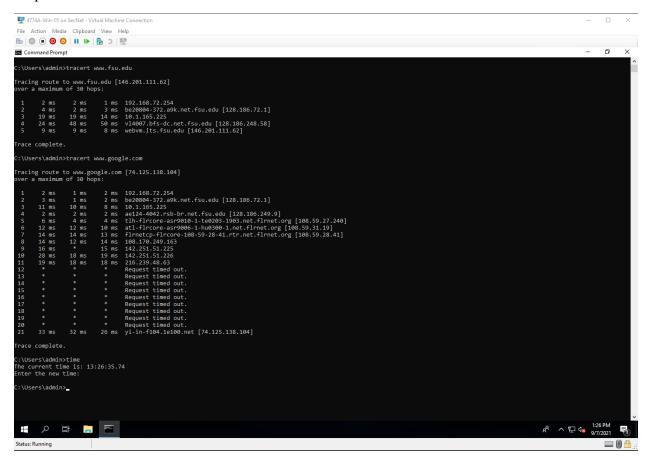
#### **Project Questions**

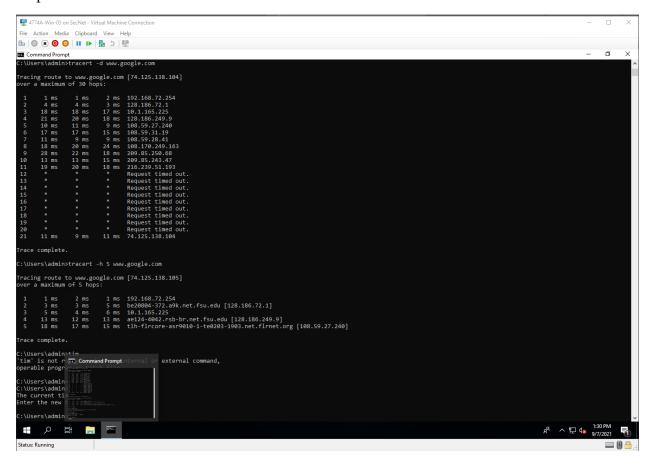
- 1. I pinged www.utah.edu
- 2. The IP address was 155.98.186.21
- 3. The ping was 95 ms long
- 4. It had 228 TTL value

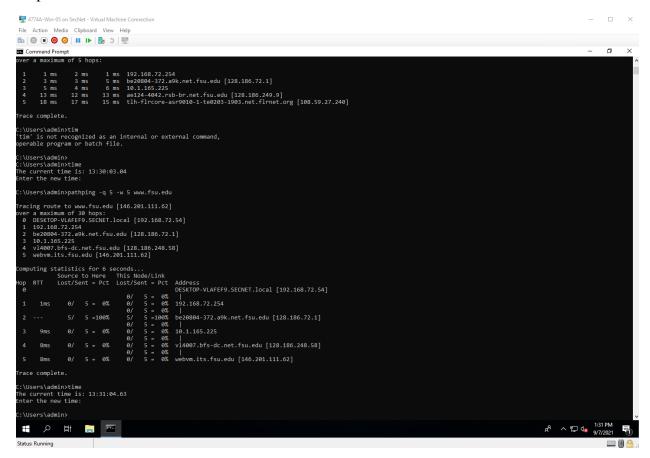
#### **Thought Questions**

- 1. You can change the number of packets sent with the -n flag
- 2. The -l option changes the size of the packets sent. The -n option changes the number of packets sent. The -t option pings the host until interrupted by user.
- 3. Packet loss is typically experienced due to network connectivity issues.
- 4. Sending larger files allow for the user to test the throughput.

#### 1.4 TraceRT







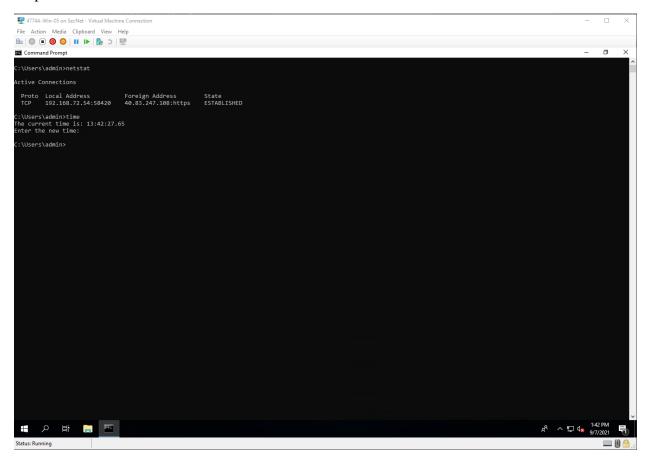
#### **Project Questions**

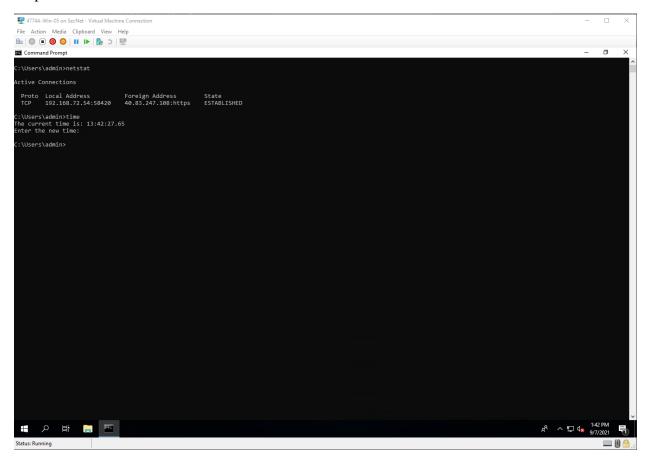
- 1. There were 5 entries between me and www.fsu.edu
- 2. There were 21 entries between me and www.google.com
- 3. The computer after me is 192.168.72.254 (default gateway)
- 4. Pathpings longest wait for results was round 20 seconds

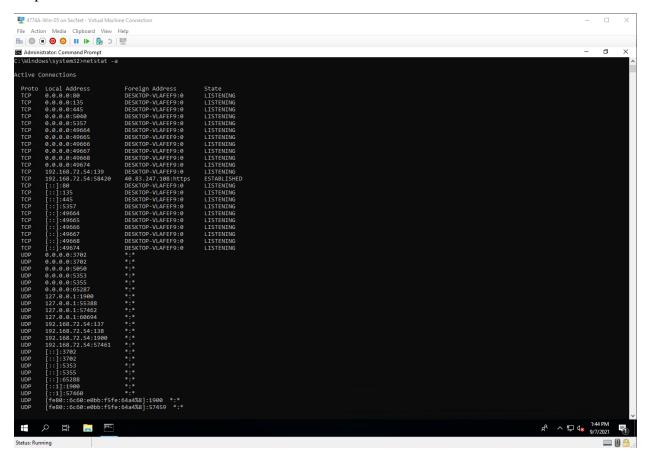
#### **Thought Questions**

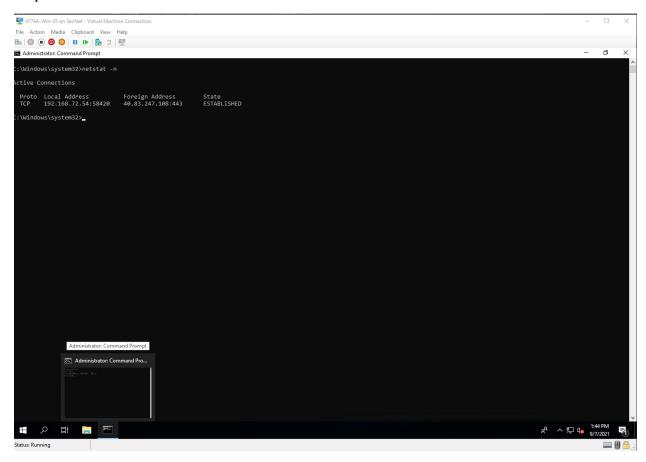
- 1. You would use the -d option when you don't want IP addresses resolved to hostnames.
- 2. The -w option sets the timeout limit. If a host takes longer than the timeout period to respond, the services skip over it.
- 3. A network administrator may want to see how traffic is being routed through the networks they have control over.
- 4. The -q option defines how many queries are made per hop in pathpin. If it is not specified, pathping will just use its default value.

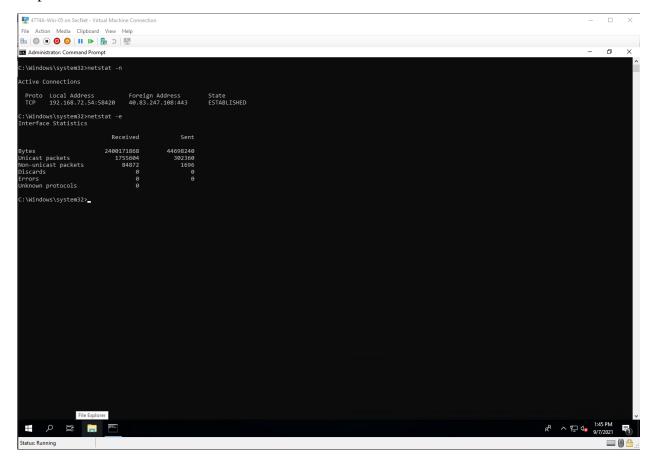
## 1.5 NETSTAT

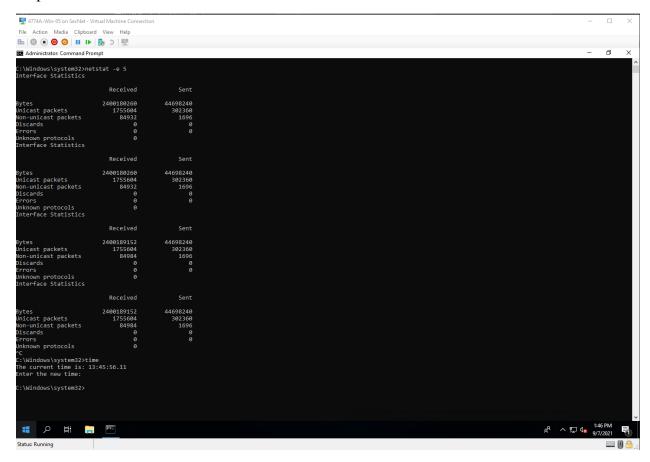


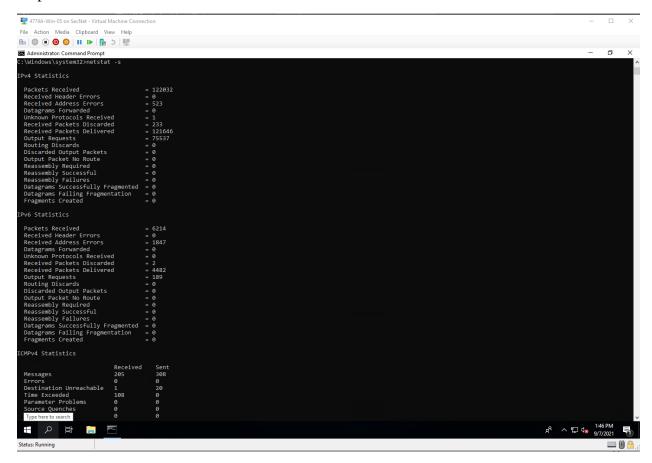












## **Project Questions**

- 1. The first local port was 58420
- 2. I had 23 TCP connections
- 3. I sent out 44698240 bytes
- 4. I have 94 echo replies

#### **Thought Questions**

1. .

## 1.6 NSLOOKUP

# Step 1

**Project Questions** 

1. . Thought Questions

5. .