Pinging geeker.co [104.21.33.176] with 32 bytes of data:

Reply from 104.21.33.176: bytes=32 time=7ms TTL=54

Reply from 104.21.33.176: bytes=32 time=8ms TTL=54

Reply from 104.21.33.176: bytes=32 time=8ms TTL=54

Reply from 104.21.33.176: bytes=32 time=11ms TTL=54

Ping statistics for 104.21.33.176:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 7ms, Maximum = 11ms, Average = 8ms

The results from pinging geeker.co display the packets sent (4), received(4), and lost(0). It also shows the ip(104.21.33.176), and round trip time(8ms). This shows the connection between my machine and the remote host. This shows a secure connection with no errors.

Pinging odu.edu [35.170.140.174] with 32 bytes of data:

Reply from 35.170.140.174: bytes=32 time=9ms TTL=50

Reply from 35.170.140.174: bytes=32 time=8ms TTL=50

Reply from 35.170.140.174: bytes=32 time=9ms TTL=50

Reply from 35.170.140.174: bytes=32 time=10ms TTL=50

Ping statistics for 35.170.140.174:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 8ms, Maximum = 10ms, Average = 9ms

The results from pinging odu.edu displays the same information; packets sent (4), received(4), and lost(0). It also shows the ip(35.170.140.174), and round trip time(9ms). This shows the connection between my machine and the remote host. This shows a secure connection with no errors.

Pinging amazon.com [54.239.28.85] with 32 bytes of data:

Reply from 54.239.28.85: bytes=32 time=8ms TTL=241

Reply from 54.239.28.85: bytes=32 time=9ms TTL=241

Reply from 54.239.28.85: bytes=32 time=8ms TTL=241

Reply from 54.239.28.85: bytes=32 time=8ms TTL=241

Ping statistics for 54.239.28.85:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 8ms, Maximum = 9ms, Average = 8ms

The results from pinging amazon.com displays the same information again; packets sent (4), received(4), and lost(0). It also shows the ip(54.239.28.85), and round trip time(8ms). This shows the connection between my machine and the remote host. This shows a secure connection with no errors.

The reason these are all the same is because there are no connection issues, the round trip time varies slightly, and the ip addresses are different because I am connecting to a different host.

The ping command checks round trip with an echo request, it receives a corresponding echo reply packet to calculate the time the packet took to return.

The traceroute command (tracert on Windows) calculates the time to connect to the host, as well as the path to get there. Below are all the hops for the previous three sites pinged.

Tracing route to geeker.co [172.67.147.171]

over a maximum of 30 hops:

1 4 ms 2 ms 2 ms 10.254.0.4

2 3 ms 3 ms 2 ms 10.10.0.77

3 4 ms 2 ms 4 ms 10.255.245.82

4 2 ms 2 ms 2 ms 10.255.245.84

5 5 ms 3 ms 4 ms 192.168.10.50

6 9 ms 8 ms 9 ms 192.122.175.42

7 11 ms 11 ms 11 ms 192.122.175.59

8 10 ms 8 ms 8 ms 163.253.1.145

9 18 ms 8 ms 9 ms 162.252.69.53

10 9 ms 8 ms 10 ms 173.245.63.117

11 8 ms 8 ms 8 ms 172.67.147.171

Trace complete.

Tracing route to odu.edu [35.170.140.174]

over a maximum of 30 hops:

1 8 ms 2 ms 2 ms 10.254.0.4

2 5 ms 2 ms 3 ms 10.10.0.77

3 24 ms 50 ms 149 ms 10.255.245.82

4 2 ms 7 ms 2 ms 10.255.245.84

5 3 ms 3 ms 2 ms 192.168.10.50

6 10 ms 8 ms 9 ms 192.122.175.42

7 10 ms 10 ms 12 ms 192.122.175.15

8 56 ms 9 ms 9 ms 163.253.1.141

9 8 ms 9 ms 10 ms 99.82.179.34

10 \* \* \* Request timed out.

11 \* \* \* Request timed out.

12 \* \* \* Request timed out.

13 \* \* \* Request timed out.

14 10 ms 9 ms 9 ms ec2-35-170-140-174.compute-1.amazonaws.com [35.170.140.174]

Trace complete.

Tracing route to amazon.com [54.239.28.85]

over a maximum of 30 hops:

1 21 ms 47 ms 41 ms 10.254.0.4

2 5 ms 3 ms 4 ms 10.10.0.69

3 10 ms 3 ms 3 ms 10.255.245.82

4 3 ms 2 ms 3 ms 10.255.245.84

5 3 ms 3 ms 5 ms 192.168.10.50

6 11 ms 9 ms 10 ms 192.122.175.42

7 8 ms 11 ms 11 ms 192.122.175.15

8 9 ms 11 ms 8 ms 163.253.1.147

9 8 ms 8 ms 9 ms 99.82.179.32

10 \* \* \* Request timed out.

11 \* \* \* Request timed out.

12 \* \* \* Request timed out.

13 \* \* \* Request timed out.

14 \* \* \* Request timed out.

15 \* \* \* Request timed out.

16 \* \* \* Request timed out.

17 13 ms 8 ms 7 ms 54.239.28.85

Trace complete.