Start wireshark and give this command to cmd.A screenshot of a computer

Description automatically generated

1. What is the IP address of your host? What is the IP address of the destination host?A screenshot of a computer

   Description automatically generated
2. Why is it that an ICMP packet does not have source and destination port numbers?

Ans. It does not require any source port .A screenshot of a computer

Description automatically generated

1. Examine one of the ping request packets sent by your host. What are the ICMP type and code numbers? What other fields does this ICMP packet have? How many bytes are the checksum, sequence number and identifier fields?

A screenshot of a computer

Description automatically generated

1. Examine the corresponding ping reply packet. What are the ICMP type and code numbers? What other fields does this ICMP packet have? How many bytes are the checksum, sequence number and identifier fields?A screenshot of a computer

   Description automatically generated

Now ICMP and TracerouteA screenshot of a computer

Description automatically generated

5. What is the IP address of your host? What is the IP address of the target destination host? A screenshot of a computer

Description automatically generated

6. If ICMP sent UDP packets instead (as in Unix/Linux), would the IP protocol number still be 01 for the probe packets? If not, what would it be?

Ans. (0x11) of 17.

7. Examine the ICMP echo packet in your screenshot. Is this different from the ICMP ping query packets in the first half of this lab? If yes, how so? A screenshot of a computer

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8. Examine the ICMP error packet in your screenshot. It has more fields than the ICMP echo packet. What is included in those fields? A screenshot of a computer

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9. Examine the last three ICMP packets received by the source host. How are these packets different from the ICMP error packets? Why are they different? A screenshot of a computer

Description automatically generated

10. Within the tracert measurements, is there a link whose delay is significantly longer than others? Refer to the screenshot in Figure 4, is there a link whose delay is significantly longer than others? On the basis of the router names, can you guess the location of the two routers on the end of this link?A screenshot of a computer

Description automatically generated