

Lab 06 – Routing

Download this [L06-traceroute.pcapng \(Links to an external site.\)](#) file

qanda

Please include the questions and answers (qanda) in your submission.

1. How many hops did it take to get from my computer to google's endpoint?

12

2. Which hop did not respond?

8 because it is a *

3. The IPv4 TTL header plays an important role with traceroute, write a wireshark filter to find the frame numbers that contain the queries that was not responded to.

Ip.ttl == 8, because the query number 8 was not responded to.

4. What protocol does traceroute use for the queries?

UDP for UNIX like environments

*Windows uses ICMP Echo Requests.

5. What protocol do the routers use for the responses?

ICMP

6. Draw and label with the route with an IP address and hop #.

