# CS3205 A4 Report - ICMP Traceroute

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traceroute www.tum.de

5.
   a. IP address of my Host: 172.20.10.3
   b. IP address of destination Host: 129.187.255.151

6. No, if ICMP sent UDP packets instead (as in Unix/ Linux), the IP protocol number should be 0x11

7. Linux machines do not use ICMP echo packets for implementing traceroute. Hence none of these are captured in the wireshark file

8. The ICMP error packet has the fields type, code, checksum and length (refer screenshot ICMP_traceroute_8).

9. The last three packets received are different because they are received directly from the destination host and not from routers. They have type 3 and code 1 (host unreachable)(refer image ICMP_traceroute_9), unlike the other packets which have type 11 and code 0 (time to live exceeded)(refer image ICMP_traceroute_8).

10. The physical locations of the IP addresses obtained through traceroute were found out. In the screenshot ICMP_traceroute_0, hop 11 corresponds to a hop from Singapore to Maharashtra. Also, hop 13 corresponds to a hop from Maharashtra to Los Angeles. These have delays significantly longer compared to the others.