CS 620 ADVANCED COMPUTER NETWORKS: Assignment #2

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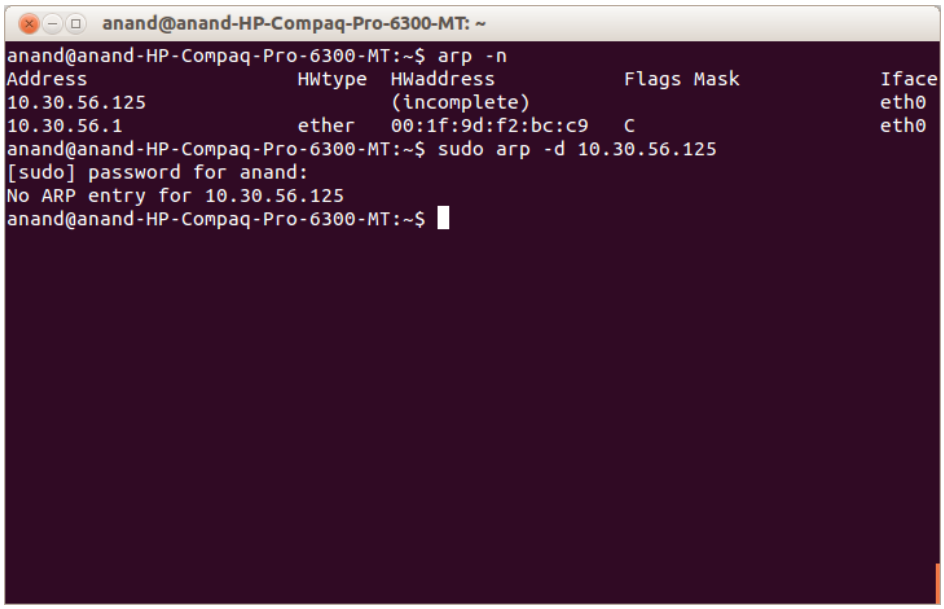
Contents

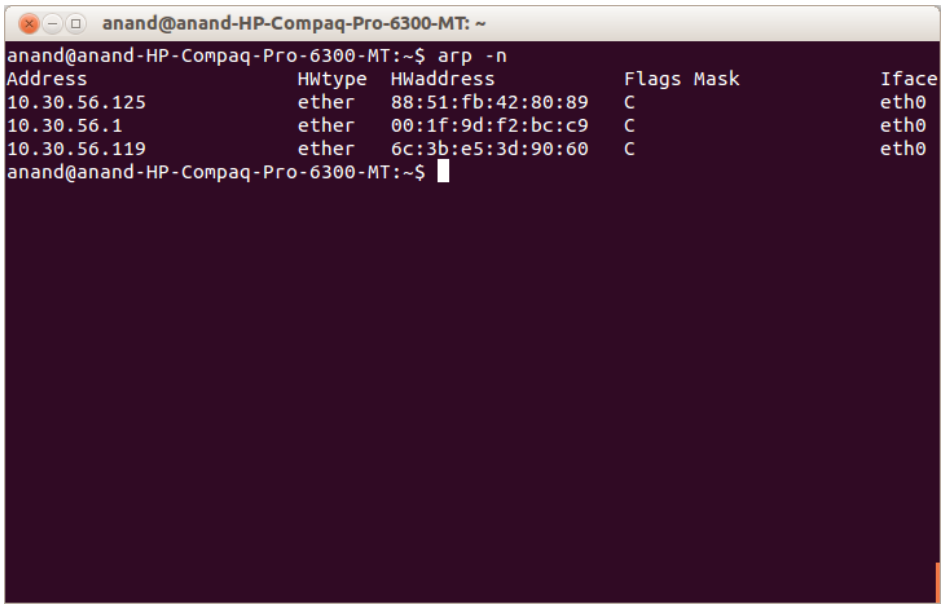
Problem 1

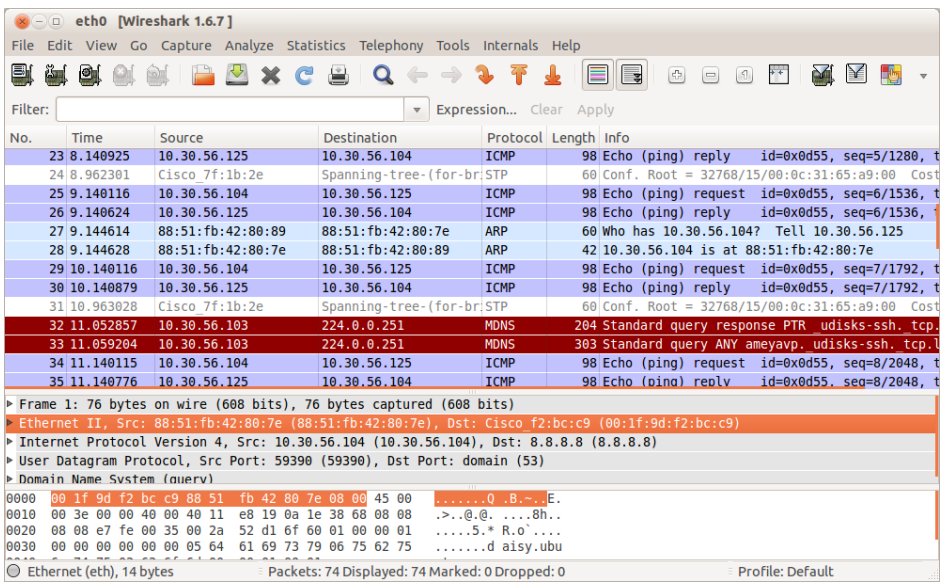
Task 1 :
Install Wireshark
Start sniffing packets
Ping an IP continuously and capture the packets
Analyse and save the file
Installed wireshark from Ubuntu repository. Before starting the capture, our ARP table needs to be cleared.
ARP Table cleared :



Now , open the Wireshark tool with root permission. Choose an interface from the list. Start pinging to an IP in your local network. In my case, it is 10.30.56.125. Observe the packets captured. There is a 'filter' option for better analysis. Save the capture file.
ARP is used for IP to MAC mapping, which means we use it for getting the MAC ID of an unknown host(means no entry in ARP Table) in our local network.

Now clear the ARP table
sudo arp -d 10.30.56.125
ARP Table with entries:





Problem 2

Task 2:
Open sniffer capture again and ping google.com
Analyse and save file
Open Wireshark again and also ping to google.com
You will get response from Google
You can see the DNS message