${\bf CS620:} {\bf Advanced\ Computer\ Networks: Assignment\ 2}$

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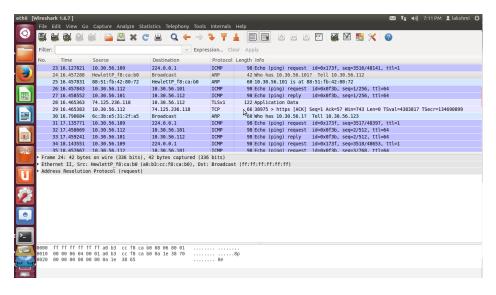
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Problem 1

Ping a local ip address and analyse the sniffer capture using wireshark. Steps: 1)Clear the arp table



2)start the wireshark sniffer analyser by typing the command sudo wireshark in the terminal. 3)start the capture session 4)Open the terminal and type the command ping 10.30.56.107(any local ip address) 5)check the arp table in the wildshark.

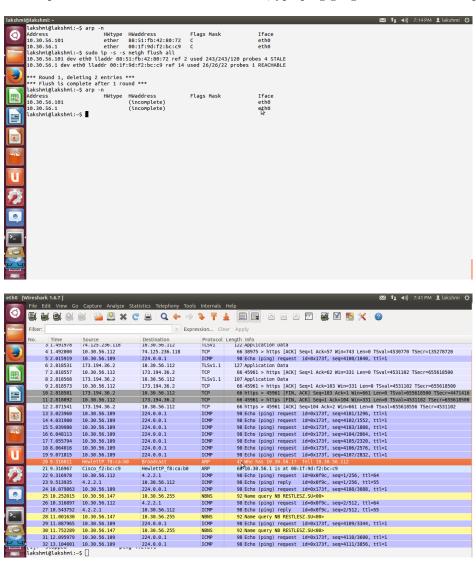




Problem 2

ping an external ip address and analyse the sniffer capture.

Steps: 1)Start the capture session in wireshark. In terminal, type ping google.com. Check the arp table .



> Frame 28: 42 bytes on wire (336 bits), 42 bytes captured (336 bits)

* Ethernet II, Src: Hewlettp f8:ca:b0 (a8:b3:cc:f8:ca:b0), Dst: Broadcast (ff:ff:ff:ff:ff)

* Destination: Broadcast (ff:ff:ff:ff:ff:ff:ff)

* Source: Hewlettp f8:ca:b0 (a8:b3:cc:f8:ca:b0)

Type: ARP (0x0006)

* Address Resolution Protocol (request)

Problem 3

ping an multicast group and analyse the sniffer capture.

Steps: 1)Start the capture session in wireshark. In terminal, type ping 224.0.0.1. Check the arp table .

