

# **Advanced Computer Network Lab Assignment: Assignment #2**

**G.Reshma Nayar**

AM.EN.P2CSN13010

## Contents

Problem 1	3
-----------	---

## Problem 1

### Question 1

a) Install wireshark and obtain.  
Ping an ip and analyze the sniffing.  
Save the table.

Step 1: The wireshark is installed through  
sudo get-apt install wireshark

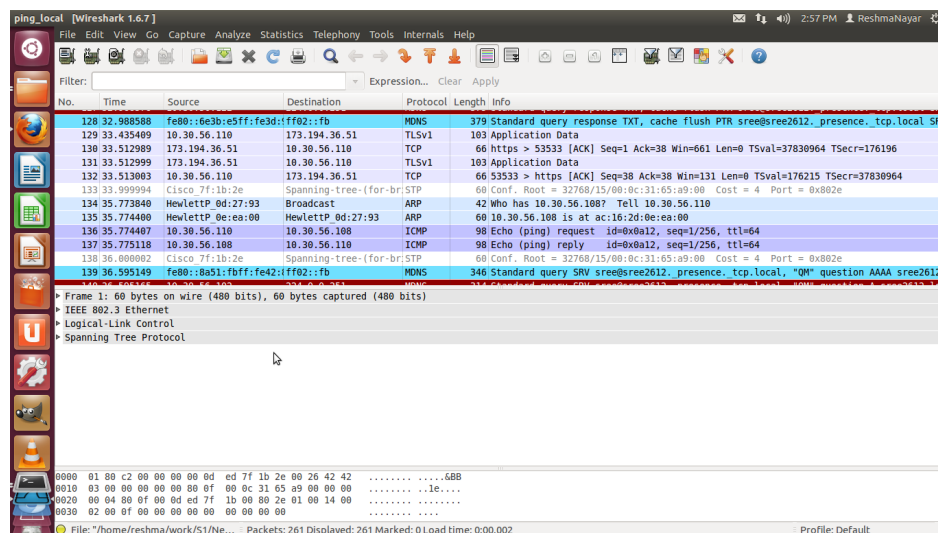
Step 2: Open wireshark using  
sudo wireshark

Step 3: Listing the entries in arp table:

```
reshma@reshma: ~
reshma@reshma:~$ arp -n
Address                  HWtype  HWaddress      Flags Mask            Iface
10.30.56.1                ether    00:1f:9d:f2:bc:c9    C                      eth1
reshma@reshma:~$
```

This shows the arp entries in the table. Initially there is no other ip.

Step 4: Capturing the sniffer packets of other ip  
ping 10.30.56.108



This command initiates the destined ip address mentioned. Here the communication is established with that ip address.

Step 5: Listing the entries in arp table:

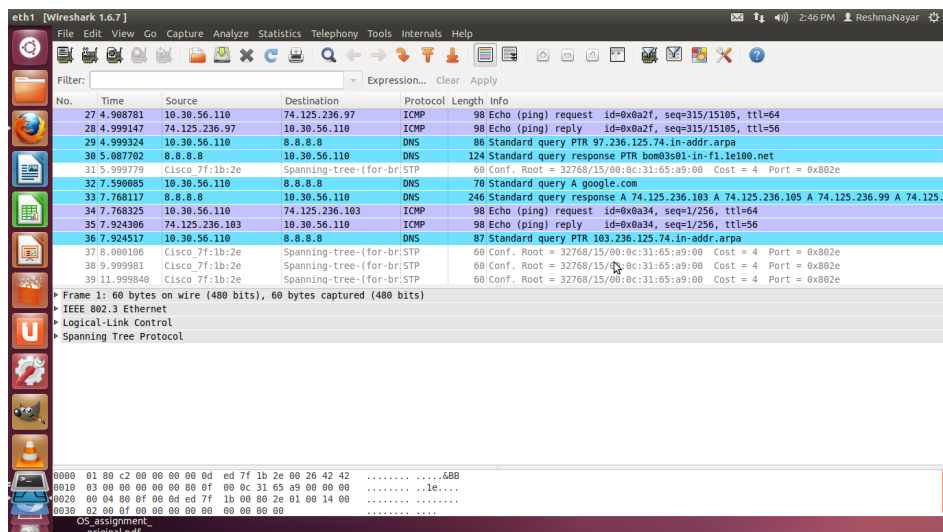
```
reshma@reshma:~$ arp -n
Address          HWtype  HWaddress      Flags Mask    Iface
10.30.56.1       ether   00:1f:9d:f2:bc:c9    C           eth1
10.30.56.108     ether   ac:16:2d:0e:ea:00    C           eth1
reshma@reshma:~$
```

This will give the mac address of the listed ip.

b) Ping google and analyze the sniffing.

Save the table. Delete the connected ip from arp table.

Step 1: Capturing the sniffer packets of google  
ping google.com



This initiates google.

Step 2: Deleting the just entered ip address in arp table:

```
reshma@reshma:~$ sudo arp -d 10.30.56.108
sudo: unable to resolve host reshma
[sudo] password for reshma:
reshma@reshma:~$ arp -n
Address          HWtype  HWaddress      Flags Mask    Iface
10.30.56.1       ether   00:1f:9d:f2:bc:c9    C           eth1
10.30.56.108     ether   (incomplete)              eth1
reshma@reshma:~$
```

By using this command the other ip address just entered will be removed and then listing.