

Networks Lab: Assignment #2

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Problem 1

To install wireshark and capture the sniffer packets from a particular IP address.

The wireshark is installed using the command :

`sudo apt-get install wireshark`

Then the wireshark is opened using

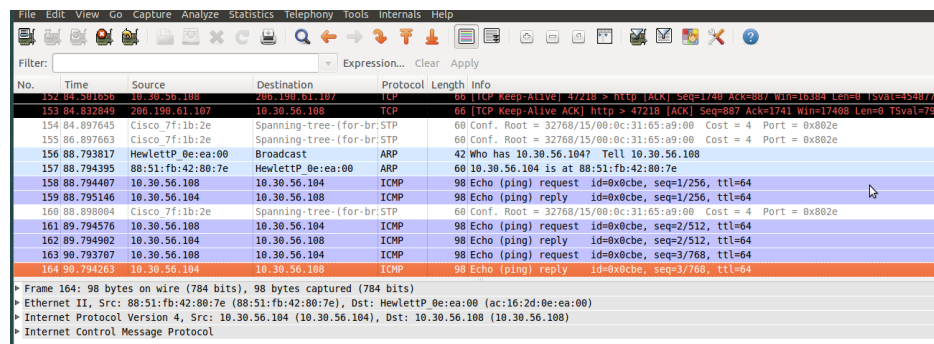
`sudo wireshark` To get the mac address of an IP address :

`arp -n`

```
archana@archana-HP-Compaq-6200-Pro-MT-PC:~$ arp -n
Address                  HWtype  HWaddress      Flags Mask    Iface
10.30.56.1                ether   00:1f:9d:f2:bc:c9    C              eth0
archana@archana-HP-Compaq-6200-Pro-MT-PC:~$
```

The sniffer packets of an IP address using :

`ping 10.30.56.105`



`arp -n`

```
archana@archana-HP-Compaq-6200-Pro-MT-PC:~$ arp -n
Address                  HWtype  HWaddress      Flags Mask    Iface
10.30.56.1                ether   00:1f:9d:f2:bc:c9    C              eth0
10.30.56.104              ether   88:51:fb:42:80:7e    C              eth0
10.30.56.119              ether   6c:3b:e5:3d:90:60    C              eth0
archana@archana-HP-Compaq-6200-Pro-MT-PC:~$
```

`arp -d 10.30.56.104`

```
archana@archana-HP-Compaq-6200-Pro-MT-PC:~$ sudo arp -d 10.30.56.104
[sudo] password for archana:
archana@archana-HP-Compaq-6200-Pro-MT-PC:~$ arp -n
Address                  HWtype  HWaddress      Flags Mask    Iface
10.30.56.1                ether   00:1f:9d:f2:bc:c9    C              eth0
10.30.56.104              (incomplete)
archana@archana-HP-Compaq-6200-Pro-MT-PC:~$
```

The sniffer packets from google.com is captured using :

`ping google.com`

File Edit View Go Capture Analyze Statistics Telephony Tools Internals Help						
Filter: Expression... Clear Apply						
No.	Time	Source	Destination	Protocol	Length	Info
2	4.000443	Cisco 7f:1b:2e	Spanning-tree-(for-br)STP	60 Conf. Root = 32768/15/00:0c:31:65:a9:00 Cost = 4 Port = 0x802e		
3	4.000224	Cisco 7f:1b:2e	Spanning-tree-(for-br)STP	60 Conf. Root = 32768/15/00:0c:31:65:a9:00 Cost = 4 Port = 0x802e		
4	6.000262	Cisco 7f:1b:2e	Spanning-tree-(for-br)STP	60 Conf. Root = 32768/15/00:0c:31:65:a9:00 Cost = 4 Port = 0x802e		
5	8.000167	Cisco 7f:1b:2e	Spanning-tree-(for-br)STP	60 Conf. Root = 32768/15/00:0c:31:65:a9:00 Cost = 4 Port = 0x802e		
6	10.000208	Cisco 7f:1b:2e	Spanning-tree-(for-br)STP	60 Conf. Root = 32768/15/00:0c:31:65:a9:00 Cost = 4 Port = 0x802e		
7	10.979166	10.30.56.104	10.30.59.255	BROWSER	291	Host Announcement ANAND-HP-COMPAQ-, Workstation, Server, Print Queue Server, Xenix
8	11.785417	10.30.56.108	8.8.8.8	DNS	70	Standard query A google.com
9	11.917295	8.8.8.8	10.30.56.108	DNS	246	Standard query response A 74.125.236.103 A 74.125.236.105 A 74.125.236.99 A 74.125.
10	11.917675	10.30.56.108	74.125.236.103	ICMP	98	Echo (ping) request id=0xdaf, seq=1/256, ttl=64
11	12.000136	Cisco 7f:1b:2e	Spanning-tree-(for-br)STP	60 Conf. Root = 32768/15/00:0c:31:65:a9:00 Cost = 4 Port = 0x802e		
12	12.008291	74.125.236.103	10.30.56.108	ICMP	98	Echo (ping) reply id=0xdaf, seq=1/256, ttl=56
13	12.000560	10.30.56.108	8.8.8.8	DNS	87	Standard query PTR 103.236.125.74.in-addr.arpa
14	12.113534	8.8.8.8	10.30.56.108	DNS	125	Standard query response PTR bom03s01-in-f7.1e100.net
▶ Frame 1: 60 bytes on wire (480 bits), 60 bytes captured (480 bits) ▶ IEEE 802.3 Ethernet ▶ Logical-Link Control ▶ Spanning Tree Protocol						