

ADVANCED COMPUTER NETWORKS LAB: ASSIGNMENT

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Contents

Problem 1	3
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Problem 1

Install wireshark to sniff capture

To install wireshark:-

sudo apt-get install wireshark

arp -n

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

ping 10.30.56.109

62	22.958060	Cisco 7f:1b:2e	Spanning-tree-(for-STP	60	Conf. Root = 32768/15/00:0c:31:65:a9:00 Cost = 4 Port = 0x802e	
63	23.176871	fe80::6e3b:e5ff:fe3ff02::fb	MDNS	149	Standard query SRV amaljith@system-of-a-down.presence.tcp.local, "QM" q	
64	23.177420	fe80::8a51:fbff:fe4ff02::fb	MDNS	185	Standard query response AAAA, cache flush fe80::8a51:fbff:fe42:8087 SRV, c	
65	23.534448	10.30.56.125	224.0.0.251	MDNS	203	Standard query response SRV, cache flush 0 0 5298 VEJESH-HP-Compaq-Pro-630
66	23.534466	10.30.56.102	224.0.0.251	MDNS	151	Standard query A VEJESH-HP-Compaq-Pro-6300-MT.local, "QM" question SRV ve
67	24.096878	HewlettP_0d:28:f9	Broadcast	ARP	42	Who has 10.30.56.109? Tell 10.30.56.114
68	24.097653	6c:3b:e5:31:2f:d7	HewlettP_0d:28:f9	ARP	60	10.30.56.109 is at 6c:3b:e5:31:2f:d7
69	24.097659	10.30.56.114	10.30.56.109	ICMP	98	Echo (ping) request id=0x0ba1, seq=1/256, ttl=64
70	24.098363	10.30.56.109	10.30.56.114	ICMP	98	Echo (ping) reply id=0x0ba1, seq=1/256, ttl=64
71	24.178817	10.30.56.114	8.8.8.8	DNS	76	Standard query A daisy.ubuntu.com
72	24.267242	8.8.8.8	10.30.56.114	DNS	108	Standard query response A 91.189.95.55 A 91.189.95.54
73	24.675874	10.30.56.114	74.125.236.118	TLSv1	103	Application Data
74	24.760574	74.125.236.118	10.30.56.114	TLSv1	103	Application Data
75	24.760601	10.30.56.114	74.125.236.118	TCP	66	41778 > https [ACK] Seq=38 Ack=38 Win=331 Len=0 TSval=880427 TSecr=3476595
76	24.960981	Cisco 7f:1b:2e	Spanning-tree-(for-STP	60	Conf. Root = 32768/15/00:0c:31:65:a9:00 Cost = 4 Port = 0x802e	
77	25.098482	10.30.56.114	10.30.56.109	ICMP	98	Echo (ping) request id=0x0ba1, seq=2/512, ttl=64
78	25.099171	10.30.56.109	10.30.56.114	ICMP	98	Echo (ping) reply id=0x0ba1, seq=2/512, ttl=64

arp -n

```
parvathy@parvathy-HP-Compaq-6200-Pro-MT-PC:~$ arp -n
Address                  HWtype  HWaddress           Flags Mask            Iface
10.30.56.109             ether    6c:3b:e5:31:2f:d7   C                     eth0
10.30.56.1               ether    00:1f:9d:f2:bc:c9   C                     eth0
parvathy@parvathy-HP-Compaq-6200-Pro-MT-PC:~$
```

ping google.com

71	24.178817	10.30.56.114	8.8.8.8	DNS	76	Standard query A daisy.ubuntu.com
72	24.267242	8.8.8.8	10.30.56.114	DNS	108	Standard query response A 91.189.95.55 A 91.189.95.54
73	24.675874	10.30.56.114	74.125.236.118	TLSv1	103	Application Data
74	24.760574	74.125.236.118	10.30.56.114	TLSv1	103	Application Data
75	24.760601	10.30.56.114	74.125.236.118	TCP	66	41778 > https [ACK] Seq=38 Ack=38 Win=331 Len=0 TSval=880427 TSecr=3476595
76	24.960981	Cisco 7f:1b:2e	Spanning-tree-(for-STP	60	Conf. Root = 32768/15/00:0c:31:65:a9:00 Cost = 4 Port = 0x802e	
77	25.098482	10.30.56.114	10.30.56.109	ICMP	98	Echo (ping) request id=0x0ba1, seq=2/512, ttl=64
78	25.099171	10.30.56.109	10.30.56.114	ICMP	98	Echo (ping) reply id=0x0ba1, seq=2/512, ttl=64
79	25.120845	fe80::8a51:fbff:fe4ff02::fb	MDNS	171	Standard query AAAA VEJESH-HP-Compaq-Pro-6300-MT.local, "QM" question SRV	
80	25.121231	fe80::8a51:fbff:fe4ff02::fb	MDNS	207	Standard query response SRV, cache flush 0 0 5298 VEJESH-HP-Compaq-Pro-63	