Experiment: 4B

Date: 19.8.24

ANALYZE NETWORK TRAFFIC USING WIRESHARK TOOL

AIM:

To capture, save, filter and analyze network traffic on TCP / UDP / IP / HTTP / ARP /DHCP /ICMP /DNS using Wireshark Tool

1. Capture 100 packets from the Ethernet: IEEE 802.3 LAN Interface and save it. Procedure

- Select Local Area Connection in Wireshark.
- Go to capture option
- Select stop capture automatically after 100 packets.
- Then click Start capture.

 Save the packets.

Output

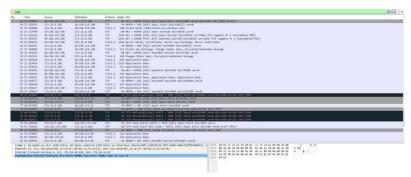
```
| No. | No.
```

2.Create a Filter to display only TCP/UDP packets, inspect the packets and provide the flow graph.

Procedure

- Select Local Area Connection in Wireshark.
- Go to capture option
- Select stop capture automatically after 100 packets.
- Then click Start capture.
- Search TCP packets in search bar.
- To see flow graph click StatisticsFlow graph. □ Save the packets.

Output:



Flow Graph output

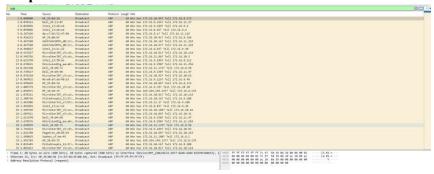


3. Create a Filter to display only ARP packets and inspect the packets. Procedure

- Select Local Area Connection in Wireshark.
- Go to capture option
- Select stop capture automatically after 100 packets.
- Then click Start capture.
- Search ARP packets in search bar.

 Save the packets.

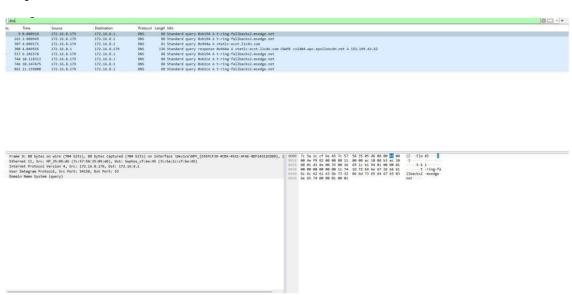
Output



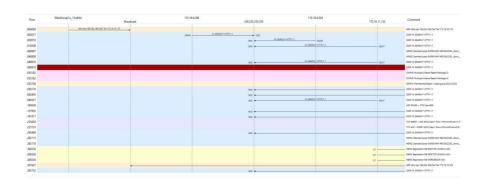
4.Create a Filter to display only DNS packets and provide the flow graph. Procedure

- Select Local Area Connection in Wireshark.
- Go to capture option
- Select stop capture automatically after 100 packets.
- Then click Start capture.
- Search DNS packets in search bar.
- To see flow graph click StatisticsFlow graph. □ Save the packets.

Output



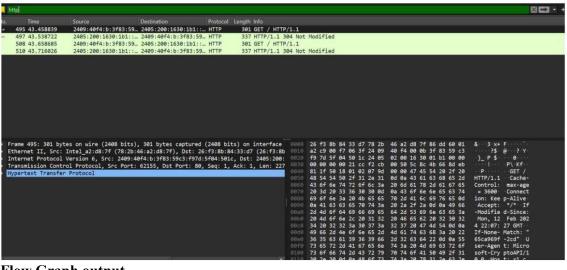
Flow Graph output



5. Create a Filter to display only HTTP packets and inspect the packets Procedure

- Select Local Area Connection in Wireshark.
- Go to capture option
- Select stop capture automatically after 100 packets.
- Then click Start capture.
- Search HTTP packets in the search bar.
- Save the packets.

Output



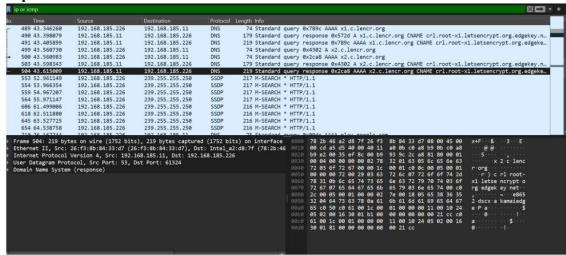
Flow Graph output



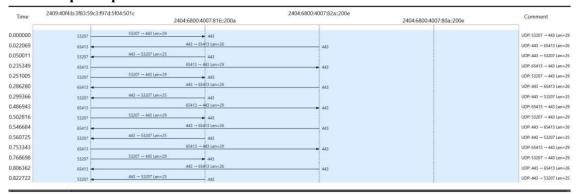
6.Create a Filter to display only IP/ICMP packets and inspect the packets. Procedure

- Select Local Area Connection in Wireshark.
- · Go to capture option
- Select stop capture automatically after 100 packets.
- Then click Start capture.
- Search ICMP/IP packets in search bar.
- Save the packets

Output



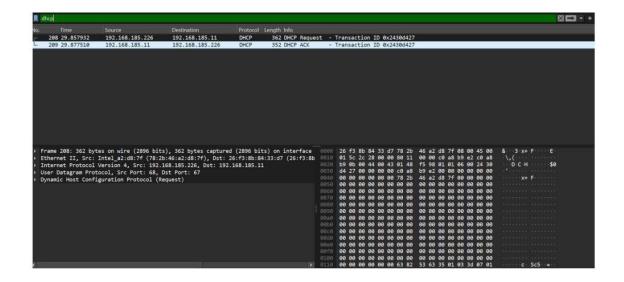
Flow Graph output



7.Create a Filter to display only DHCP packets and inspect the packets. Procedure

- Select Local Area Connection in Wireshark.
- Go to capture option
- Select stop capture automatically after 100 packets.
- Then click Start capture.
- Search DHCP packets in search bar.
- Save the packets

Output



RESULT:

Hence, analyzing network traffic using Wireshark Tool is studied