Ex No: 4 b PACKET SNIFFING USING WIRESHARK

Date: 14.8.2024

AIM:

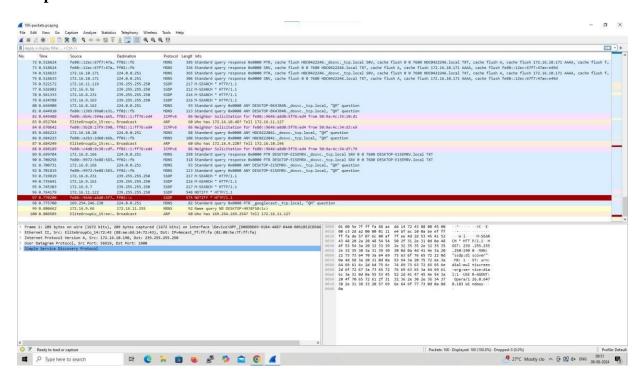
To capture, save, filter and analyze network traffic on TCP / UDP / IP / HTTP / ARP /DHCP /ICMP /DNS using Wireshark Tool

Exercises

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 ③option
- > Select stop capture automatically after 100 packets.
- > Then click Start capture.
- > Save the packets.

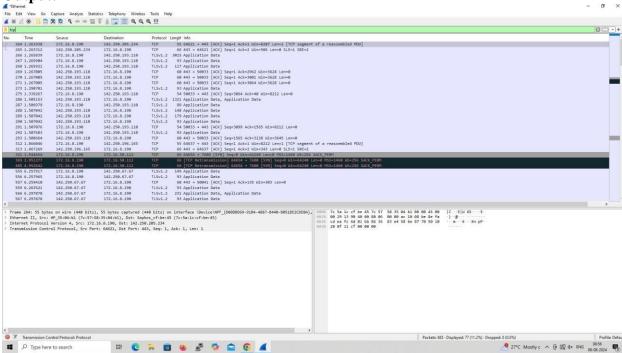


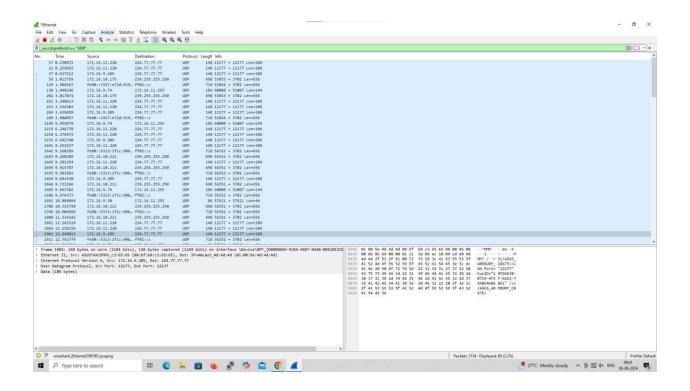
2. Create a Filter to display only TCP/UDP packets, inspect the packets and provide the flow graph.

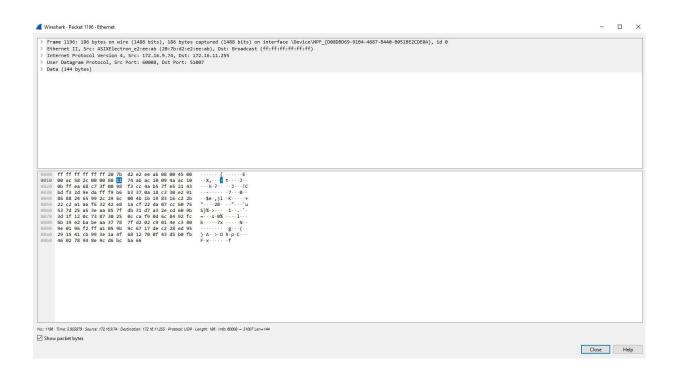
Procedure

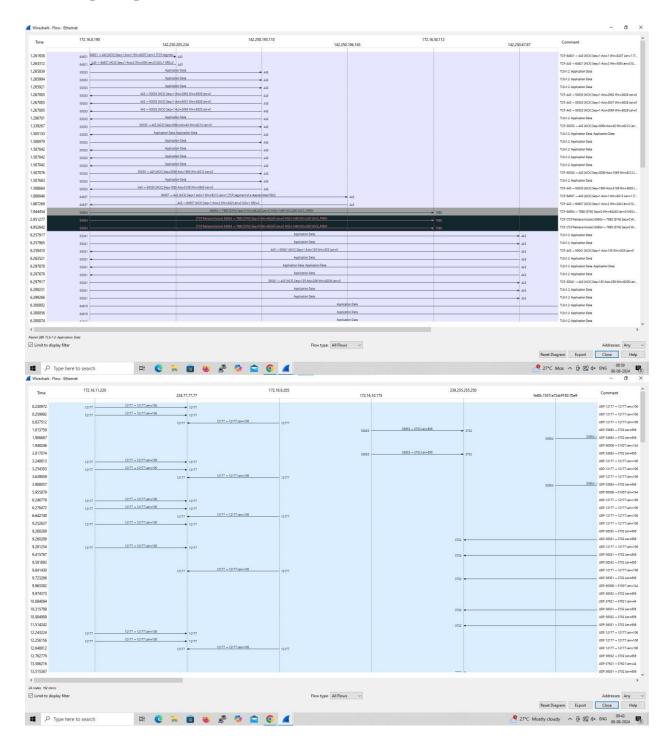
- > Select Local Area Connection in Wireshark.
- ➤ Go to capture ③option
- > Select stop capture automatically after 100 packets.
- > Then click Start capture.
- > Search TCP packets in search bar.
- > To see flow graph click Statistics Flow graph.
- > Save the packets.







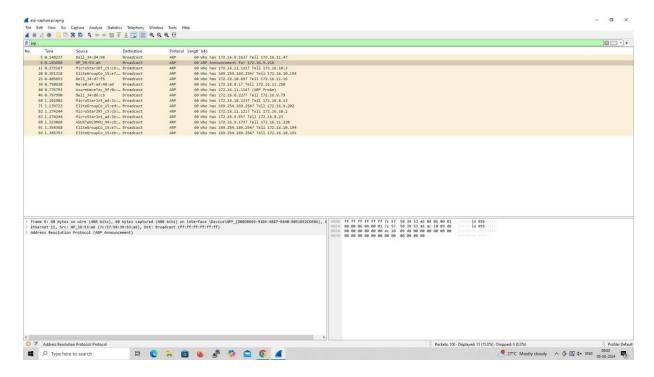




3. Create a Filter to display only ARP packets and inspect the packets.

Procedure

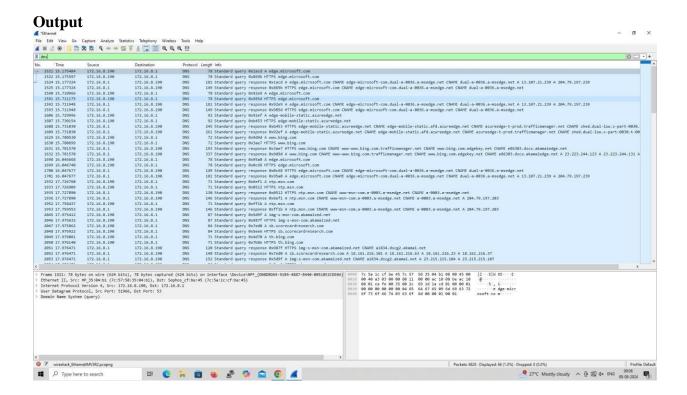
- > Select Local Area Connection in Wireshark.
- ➤ Go to capture ③option
- > Select stop capture automatically after 100 packets.
- > Then click Start capture.
- > Search ARP packets in search bar.
- > Save the packets.

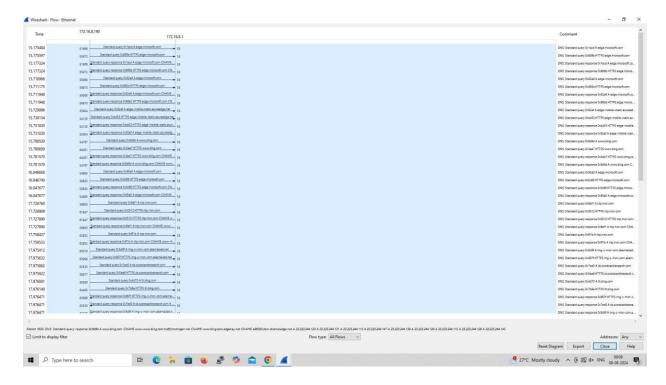


4. Create a Filter to display only DNS packets and provide the flow graph.

Procedure

- > Select Local Area Connection in Wireshark.
- ➤ Go to capture ③option
- > Select stop capture automatically after 100 packets.
- > Then click Start capture.
- > Search DNS packets in search bar.
- > To see flow graph click Statistics Flow graph.
- > Save the packets.

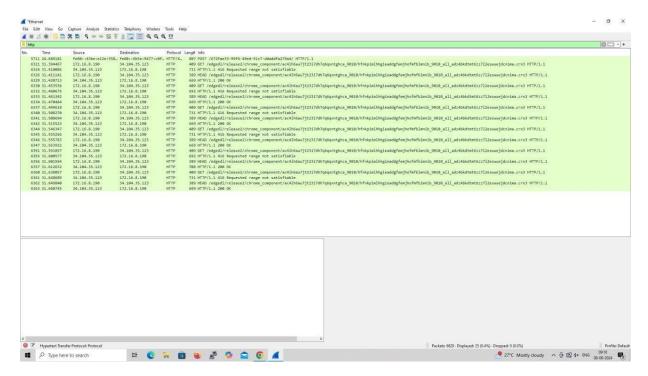


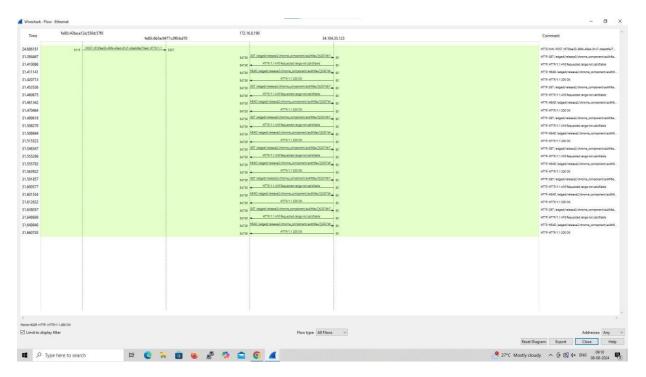


5. Create a Filter to display only HTTP packets and inspect the packets

Procedure

- > Select Local Area Connection in Wireshark.
- ➤ Go to capture ③option
- ➤ Select stop capture automatically after 100 packets.
- > Then click Start capture.
- > Search HTTP packets in the search bar.
- > Save the packets.

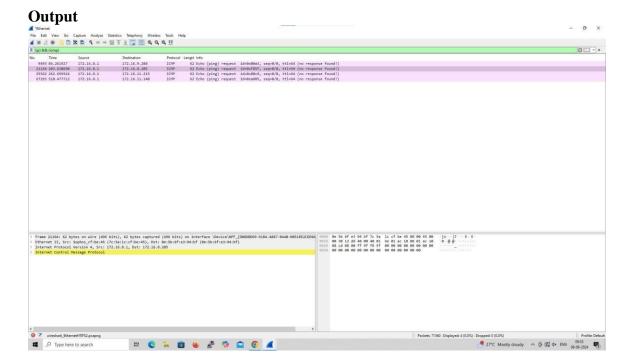




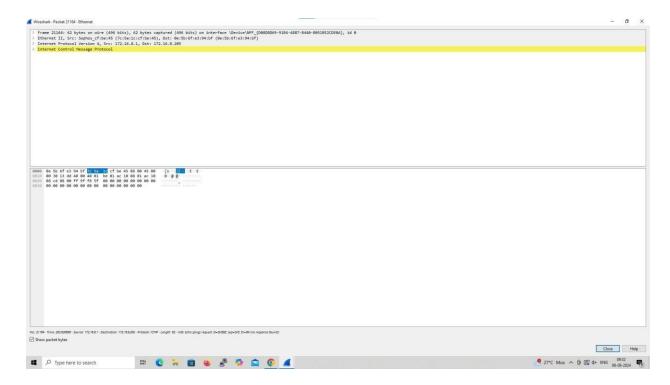
6. Create a Filter to display only IP/ICMP packets and inspect the packets.

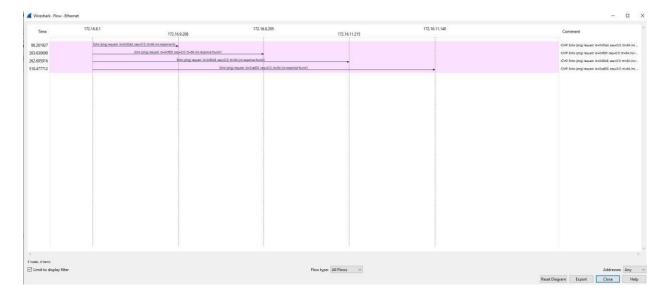
Procedure

- > Select Local Area Connection in Wireshark.
- ➤ Go to capture ③option
- > Select stop capture automatically after 100 packets.
- > Then click Start capture.
- > Search ICMP/IP packets in search bar.
- > Save the packets



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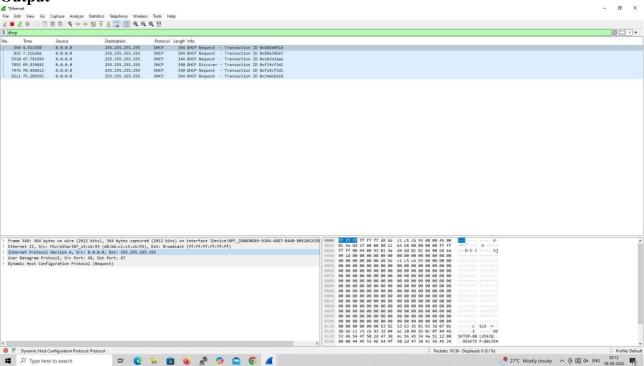


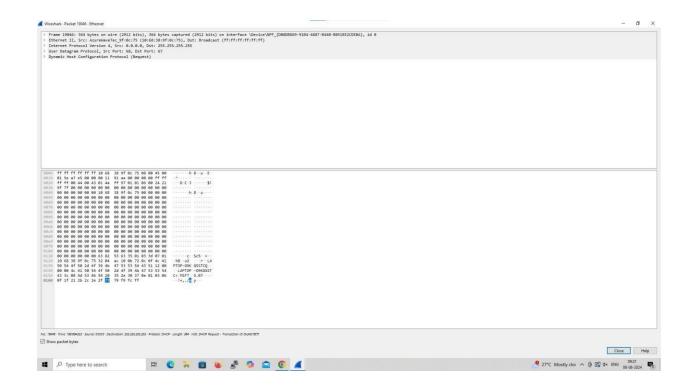


7. Create a Filter to display only DHCP packets and inspect the packets.

Procedure

- > Select Local Area Connection in Wireshark.
- ➤ Go to capture ③option
- > Select stop capture automatically after 100 packets.
- > Then click Start capture.
- > Search DHCP packets in search bar.
- > Save the packets





Result:

Hence the packets are captured, saved, filtered and analyzed for various protocols like TCP / UDP / IP / HTTP / ARP /DHCP/ICMP /DNS using Wireshark Tool.

CSE(Cybersecurity) 2nd year