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DATE:19.8.24 **ROLL NO:231901020**

PACKET SNIFFING USING WIRESHARK

AIM:

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

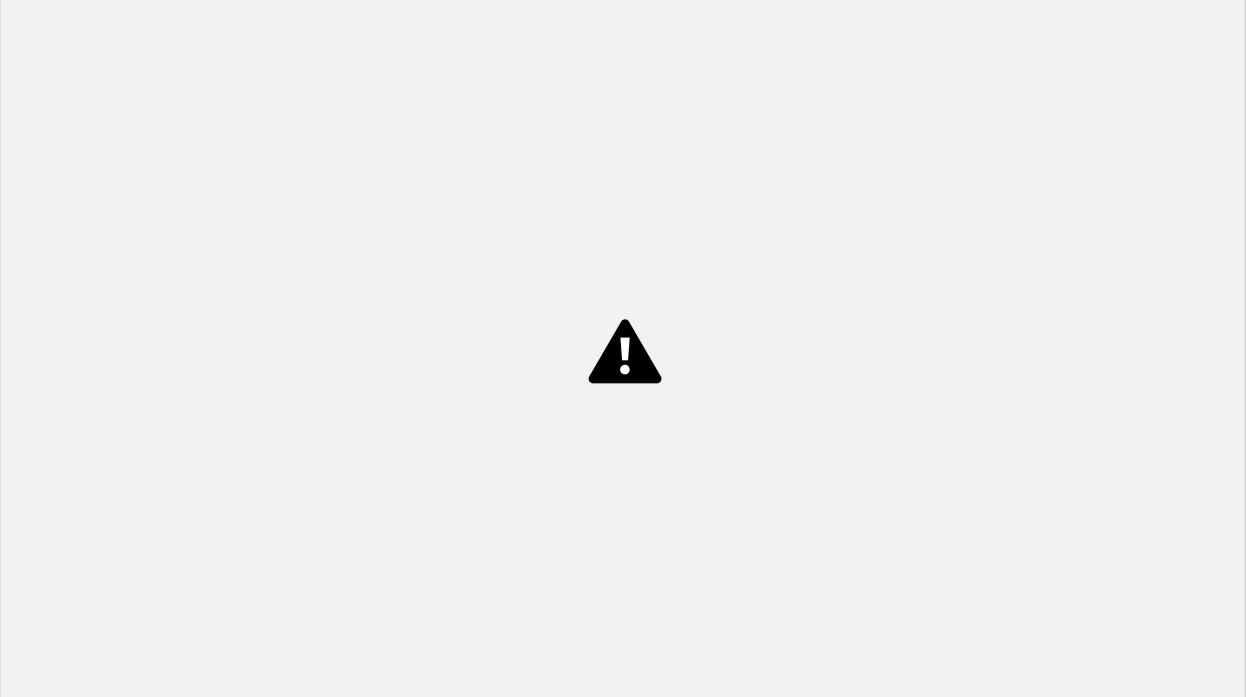
Exercises

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

Output



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 Statistics→Flow graph.

Save the packets.

Output:

Inspecting packets

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.

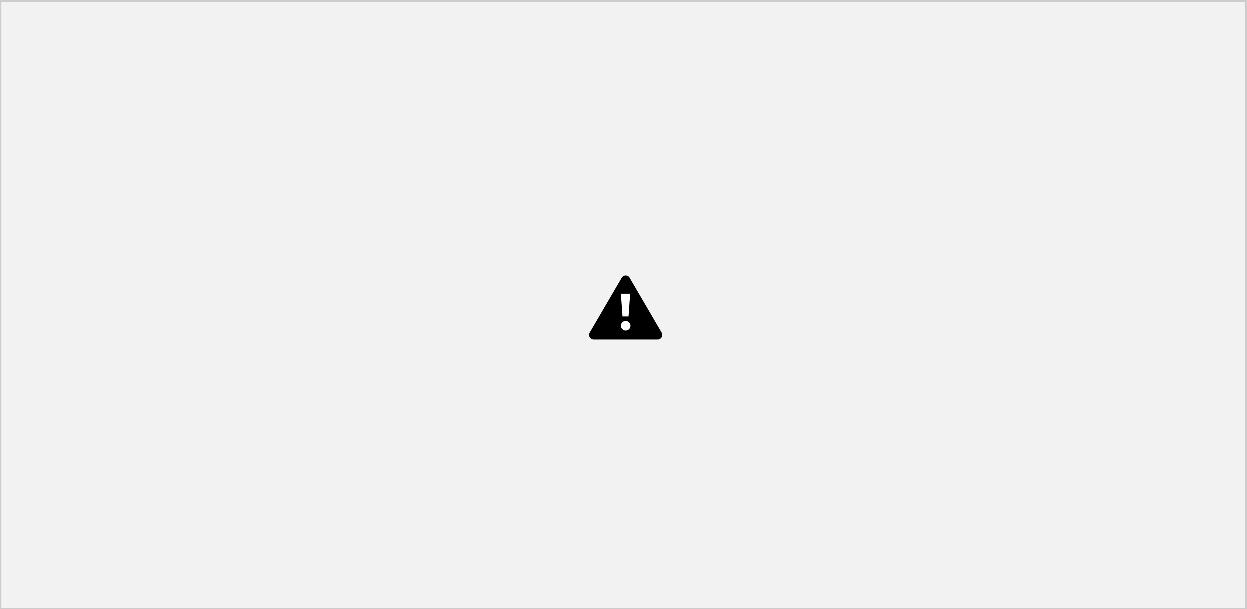
Output

Inspecting 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 ⊛option
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.

Output



Flow Graph output

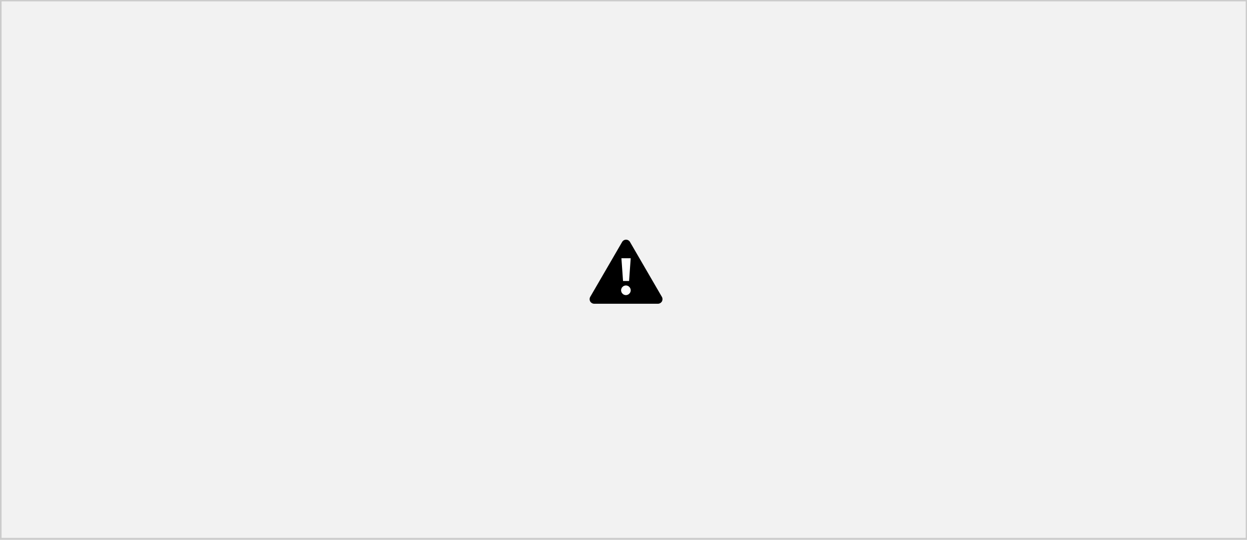
5.Create a Filter to display only HTTP packets and inspect the packets

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

Inspecting packets



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

Inspecting packets

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

Inspecting packets

RESULT:

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