Network-traffic-capture-and-analysis-with-Wireshark

AIM:

To capture and analyze network traffic using Wireshark in order to observe protocols, packets, and potential anomalies.

DESIGN STEPS:

Step 1:

Install Wireshark using the command:

Step 2:

Launch Wireshark and select the appropriate network interface for live traffic capture.

Step 3:

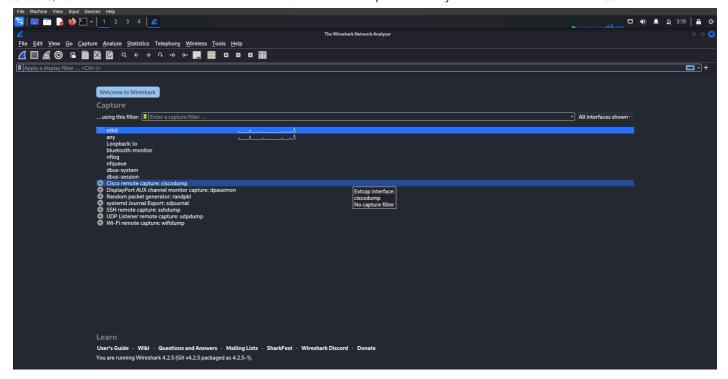
Start the capture, apply filters (like http, tcp, ip.addr == x.x.x.x.x) to analyze specific traffic, and stop the capture after observing relevant data.

PROGRAM:

Wireshark Packet Capture and Filter Usage

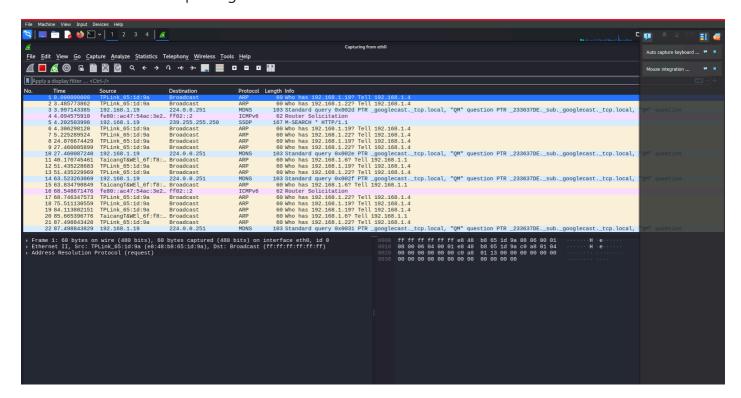
OUTPUT:

• Captured Packets with Protocol Analysis and Detailed Packet Info

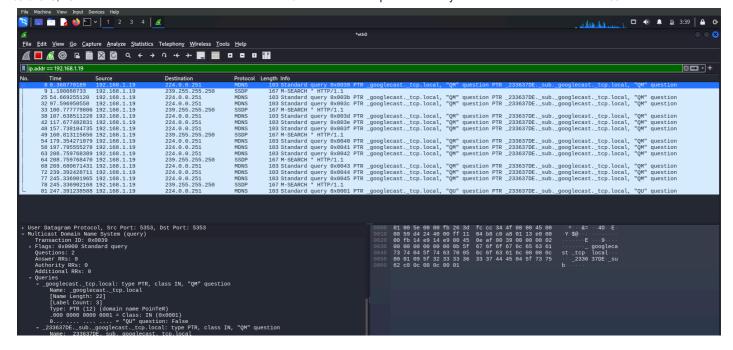


Start Capturing Packets

- Click the blue shark fin icon or double-click the interface.
- Wireshark will start capturing all real-time traffic.

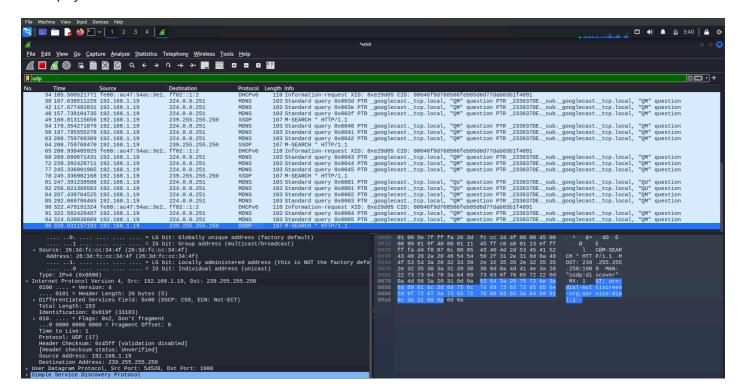


- Apply Filters to Focus on Specific Traffic
- Use filters like http, ip.addr == 192.168.1.1, or tcp.port == 80 in the top filter bar to narrow down results.



Analyze Packet Details

• Click on a packet to view its detailed breakdown including frame, Ethernet,IP, TCP/UDP layers, and data payload.



RESULT:

Network traffic was successfully captured and analyzed using Wireshark.