ELEVATE LABS INTERNSHIP

<u>Day-5</u>

Name: Mohamed Riyas

Role: Cyber Security Analyst

Task: 05

Title: Capture and Analyze Network Traffic Using

Wireshark

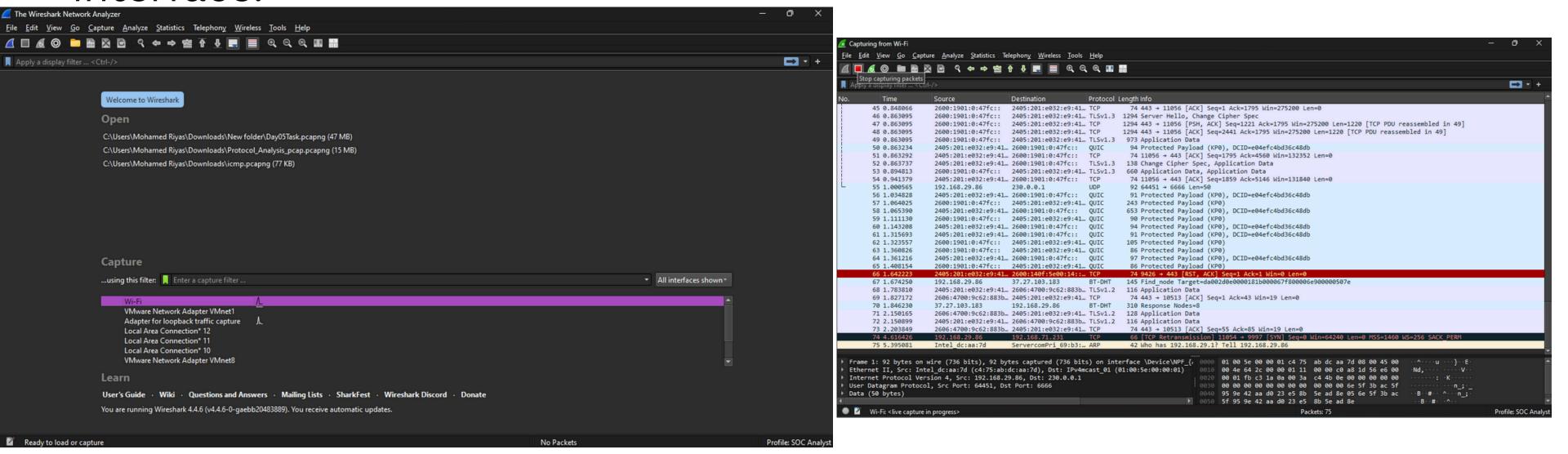
Date: 30-06-2025

Objective: Capture live network packets and identify basic protocols and traffic types. Tools: Wireshark (free).

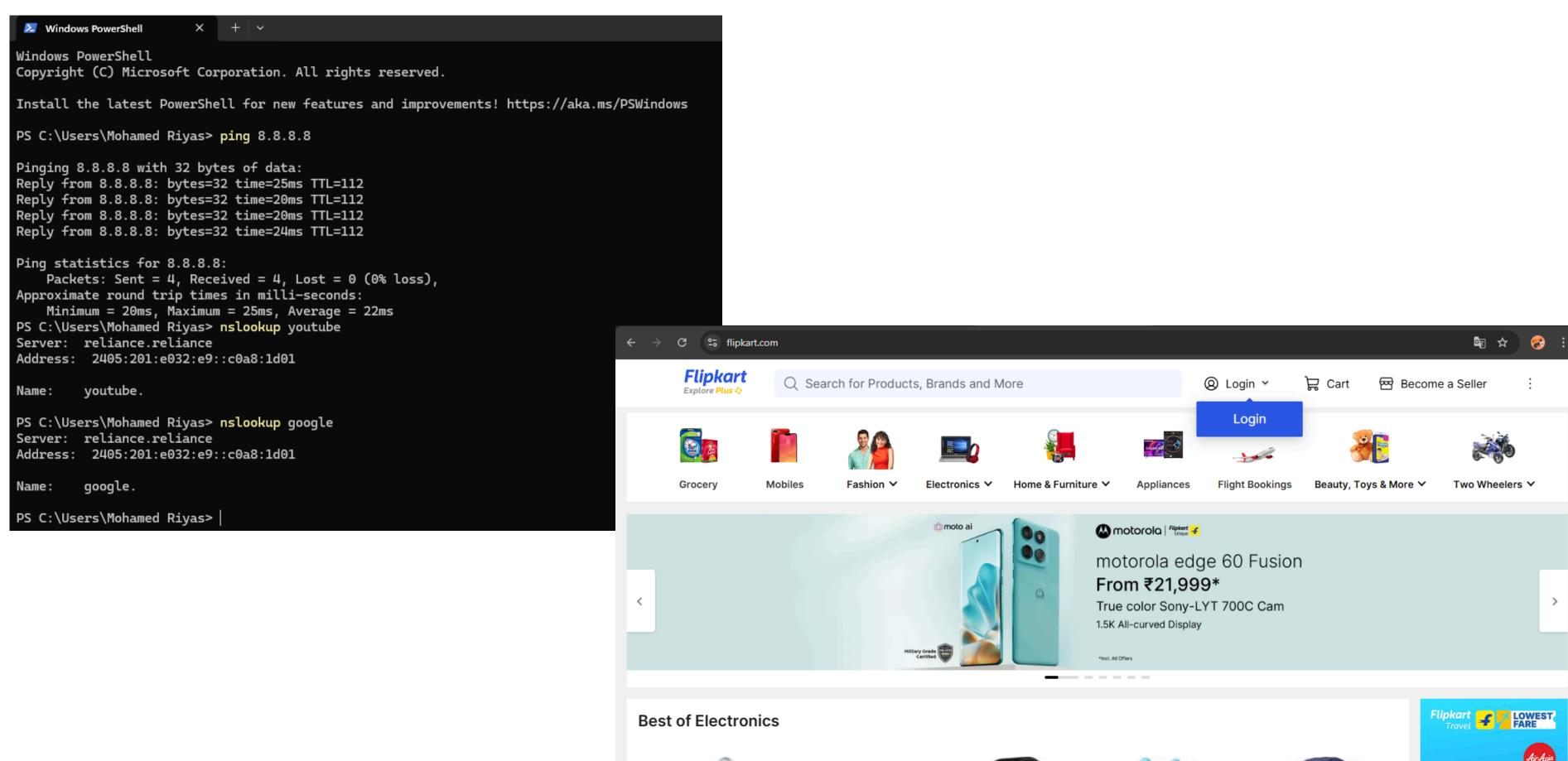
Deliverables: A packet capture (.pcap) file and a short report of protocols identified.

Step by step procedure to complete the task

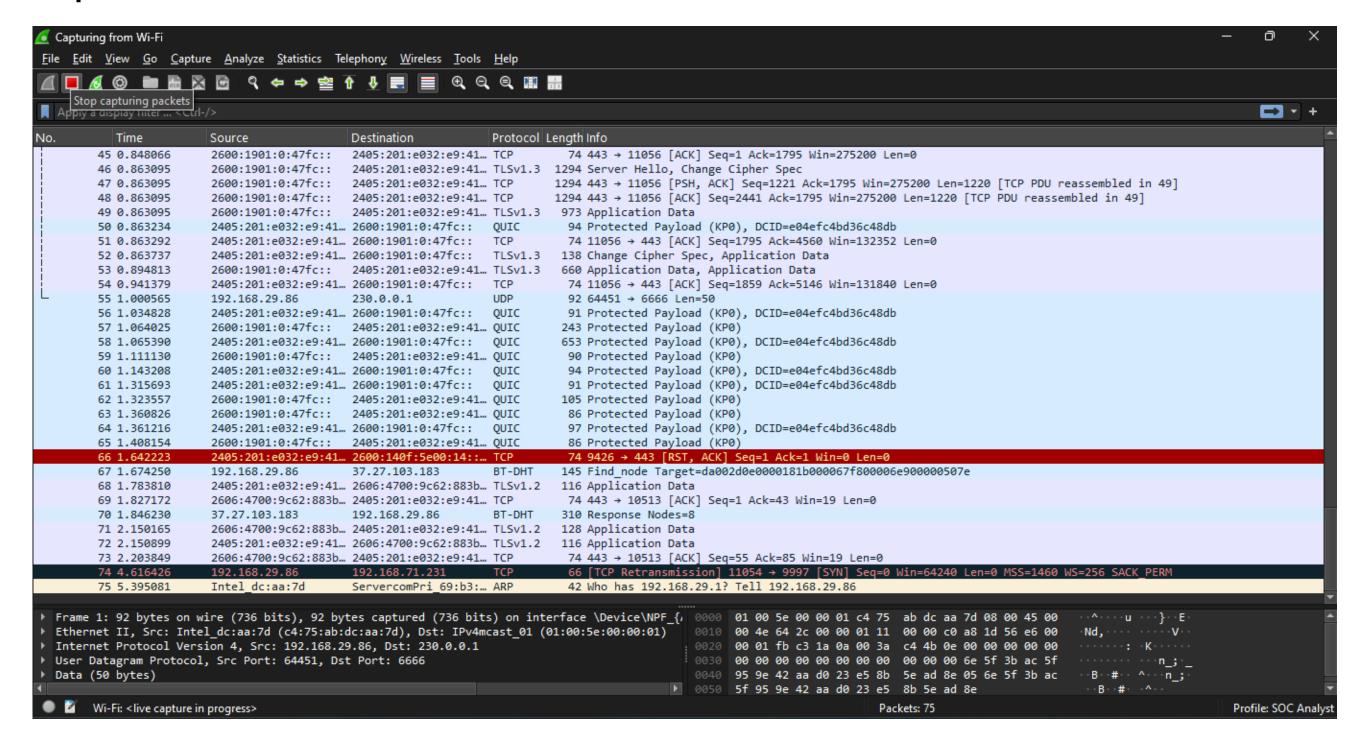
Step-1: Install Wireshark and Start capturing on your active network interface.



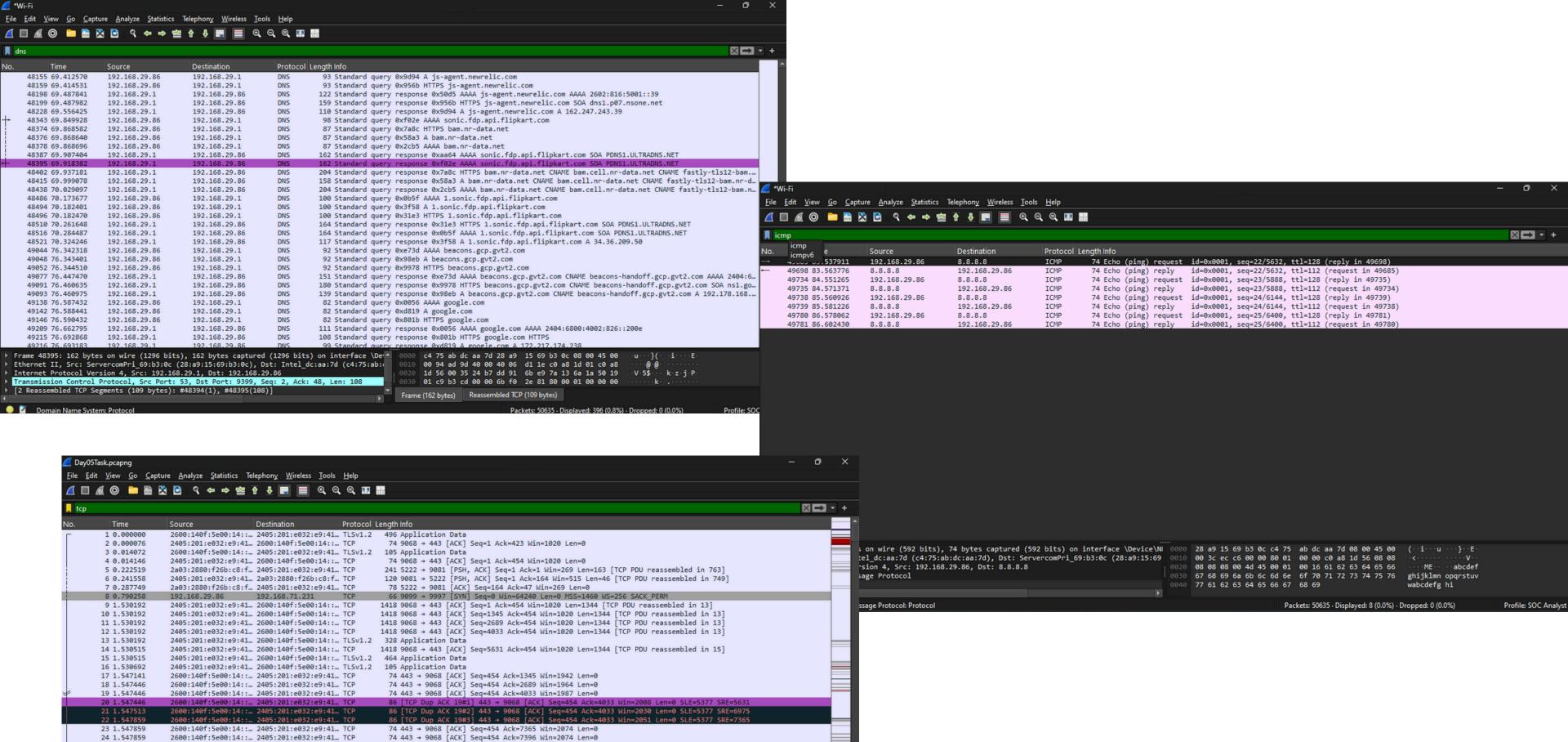
Step2:.Browse a website or ping a server to generate traffic



Step3:.Stop capture after a minute.



Step4: Filter captured packets by protocol (e.g., HTTP, DNS, TCP).



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Profile: SOC Analyst

26 1.677244

27 1.677391

28 1.679725

29 1.679807

Transmission Control Protocol: Protocol

2600:140f:5e00:14::... 2405:201:e032:e9:41... TLSv1.2

2600:140f:5e00:14::... 2405:201:e032:e9:41... TLSv1.2

2405:201:e032:e9:41... 2600:140f:5e00:14::... TCP

2405:201:e032:e9:41... 2600:140f:5e00:14::... TCP

Frame 20: 86 bytes on wire (688 bits), 86 bytes captured (688 bits) on interface \Device\NPF_

Ethernet II, Src: ServercomPri_69:b3:0c (28:a9:15:69:b3:0c), Dst: Intel_dc:aa:7d (c4:75:ab:dc

Internet Protocol Version 6, Src: 2600:140f:5e00:14::17d3:3c1f, Dst: 2405:201:e032:e9:411c:aai

Transmission Control Protocol, Src Port: 443, Dst Port: 9068, Seq: 454, Ack: 4033, Len: 0

192,168,29,86

496 Application Data

105 Application Data

74 9068 + 443 [ACK] Seq=7396 Ack=876 Win=1024 Len=0

74 9068 → 443 [ACK] Seq=7396 Ack=907 Win=1023 Len=0 55 9042 → 443 [ACK] Seq=1 Ack=1 Win=508 Len=1

00 8b 5a 06 01 89

66 [TCP Retransmission] 9099 → 9997 [SYN] Seq=0 Win=64240 Len=0 MSS=1460 WS=256 SACK F

c4 75 ab dc aa 7d 28 a9 15 69 b3 0c 86 dd 60 00 u

Packets: 50635 · Displayed: 45297 (89.5%)

fc 90 00 20 06 38 26 00 14 0f 5e 00 00 14 00 00

00 00 17 d3 3c 1f 24 05 02 01 e0 32 00 e9 41 1c

aa d7 8f d4 5c 9b 01 bb 23 6c 13 ef 68 5d 5a 05 fb 4b 80 10 07 d8 f9 64 00 00 01 01 05 0a 5a 06 Step 5: Summarize your findings and packet details.

Captured Protocols:

- DNS (Domain Name System)
- ICMP (Internet Control Message Protocol)
- TCP (Transmission Control Protocol)
- HTTP (HyperText Transfer Protocol)

COMPLETED DAY 05 TASK