CYBER SECURITY INTERNSHIP

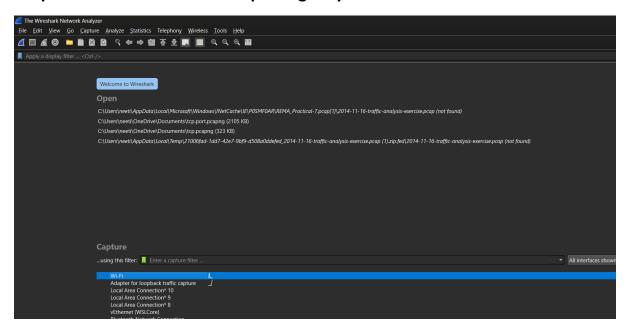
Task 1: Capture and Analyze Network Traffic Using Wireshark.

Objective: Capture live network packets and identify basic protocols and traffic

types

Tools: Wireshark

1. Open Wireshark and Start capturing on your active network interface.



You'll see a list of available network interfaces (e.g. Ethernet, Wi-Fi).

Identify your active network interface (e.g. one showing live traffic).

Click on the interface to start capturing.

2.Browse a website or ping a server to generate traffic.

Open a web browser and visit a few websites (e.g. facebook.com, google.com)

3. Stop Capturing After About 1 Minute

• Click the red square ("Stop") icon in Wireshark.

4. Apply Protocol Filters

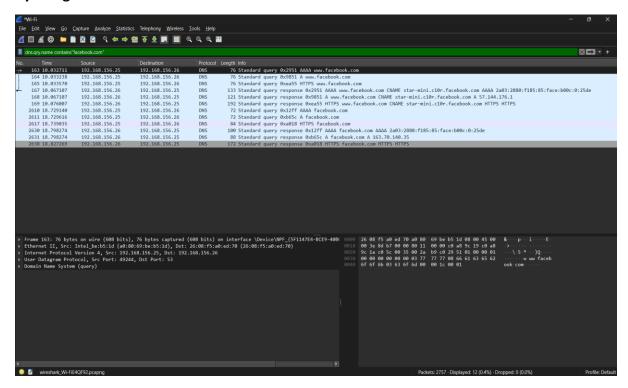
Use the filter bar to examine specific protocols:

http – shows HTTP requests/responses.

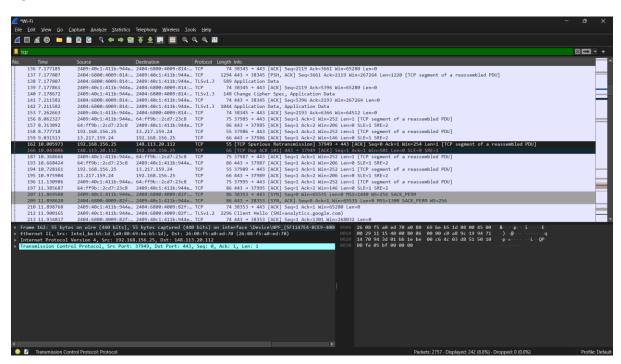
- dns shows DNS lookups (name resolution).
- icmp shows ping-related traffic.
- tcp / udp shows transport-layer activity.

Apply each filter one at a time to analyze

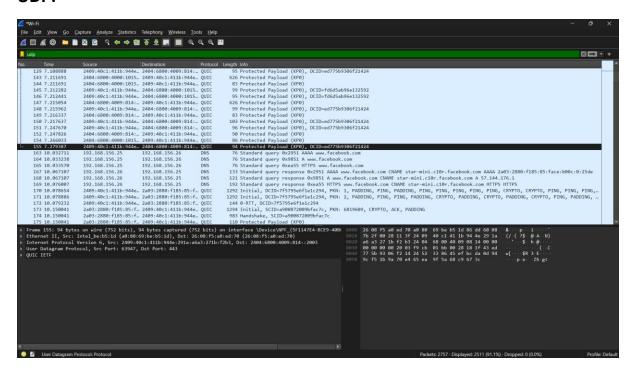
By using DNS:



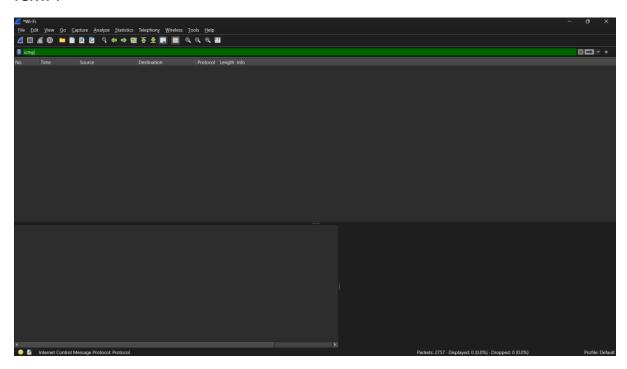
TCP:



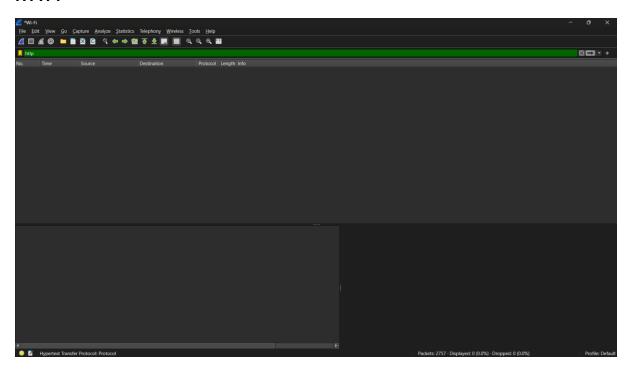
UDP:



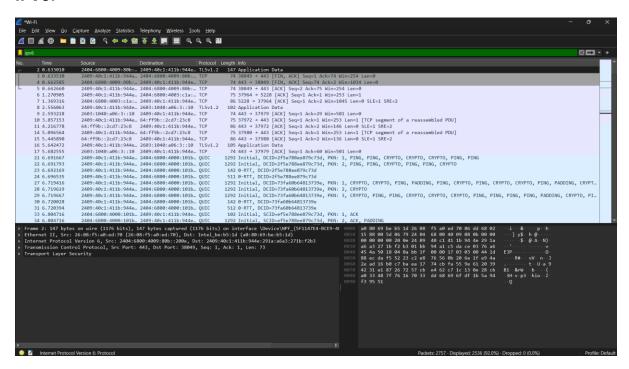
ICMP:



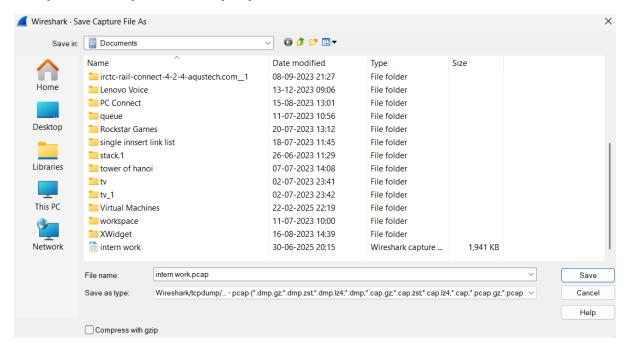
HTTP:



IPV6:



5.Export the capture as a .pcap file.



6. Findings and packets details.

