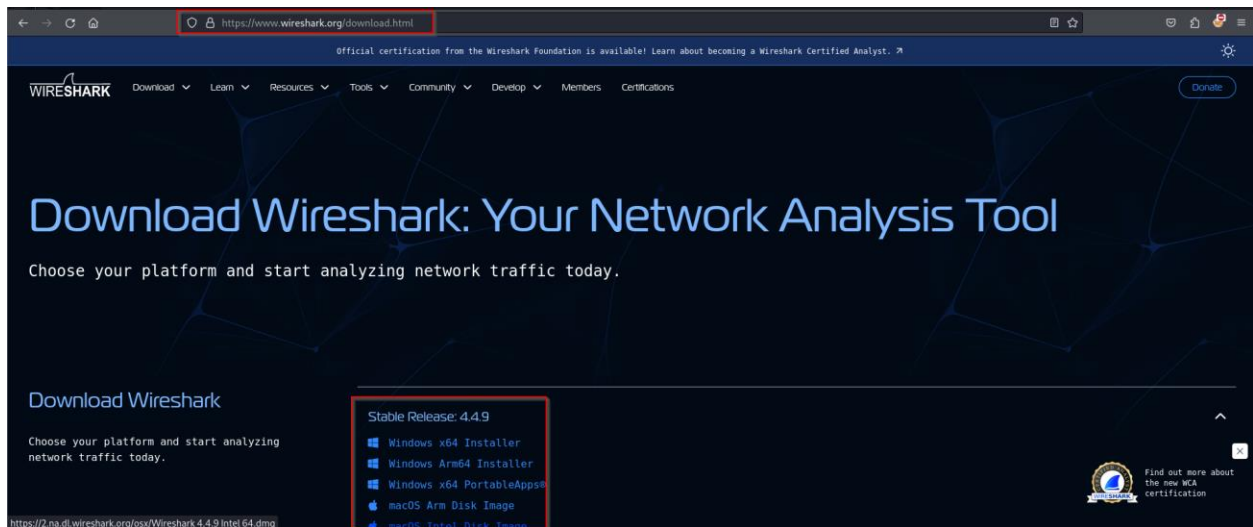


Task 5: Capture and Analyze Network Traffic Using Wireshark

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

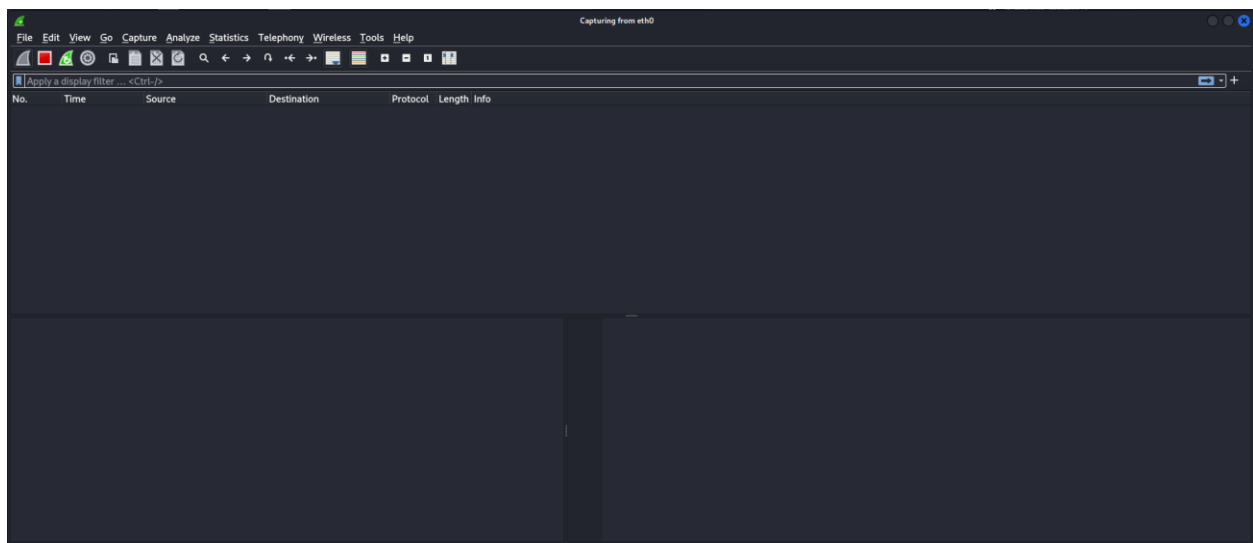
- **Step 1: Install Wireshark**

- Download from: <https://www.wireshark.org/download.html>
- Follow the installation instructions for your OS (Windows/Mac/Linux)

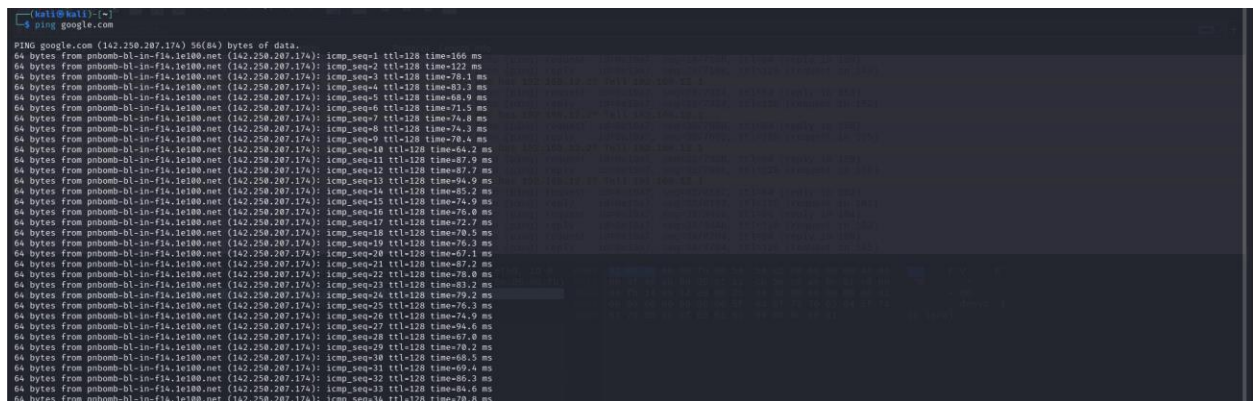


- **Step 2: Start Capturing on Active Network Interface**

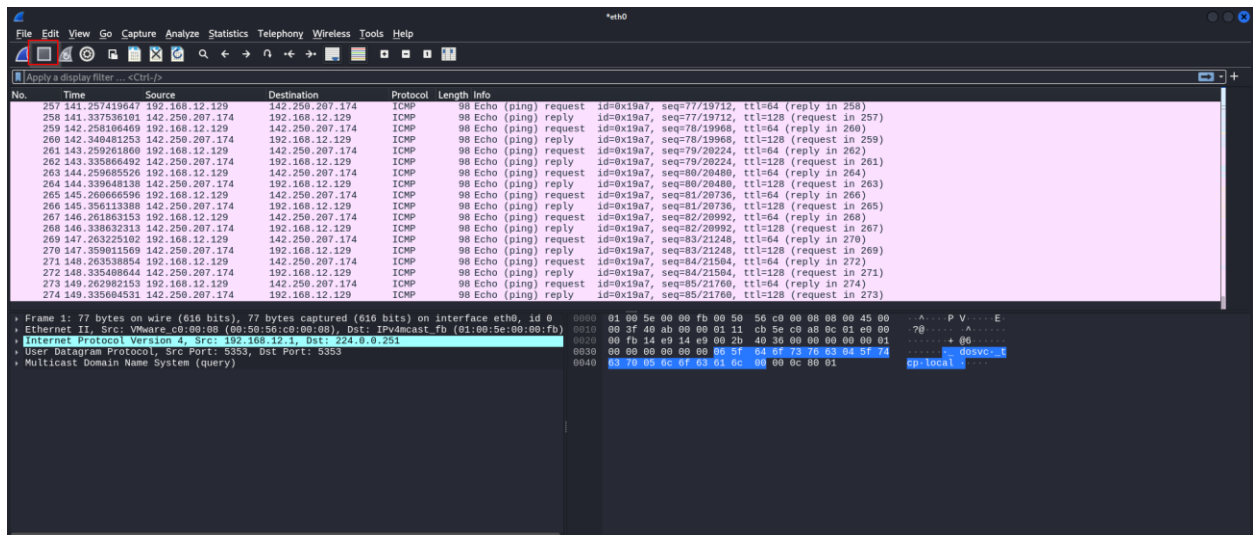
- Open Wireshark.
- Select your **active network interface** (usually Ethernet or Wi-Fi).
- Click the blue **shark fin icon** (top left) to start capturing.



- **Step 3: Browse a Website or Ping a Server**
 - Open a browser and go to a website like example.com.
 - Or, open the terminal/command prompt and run: ping google.com

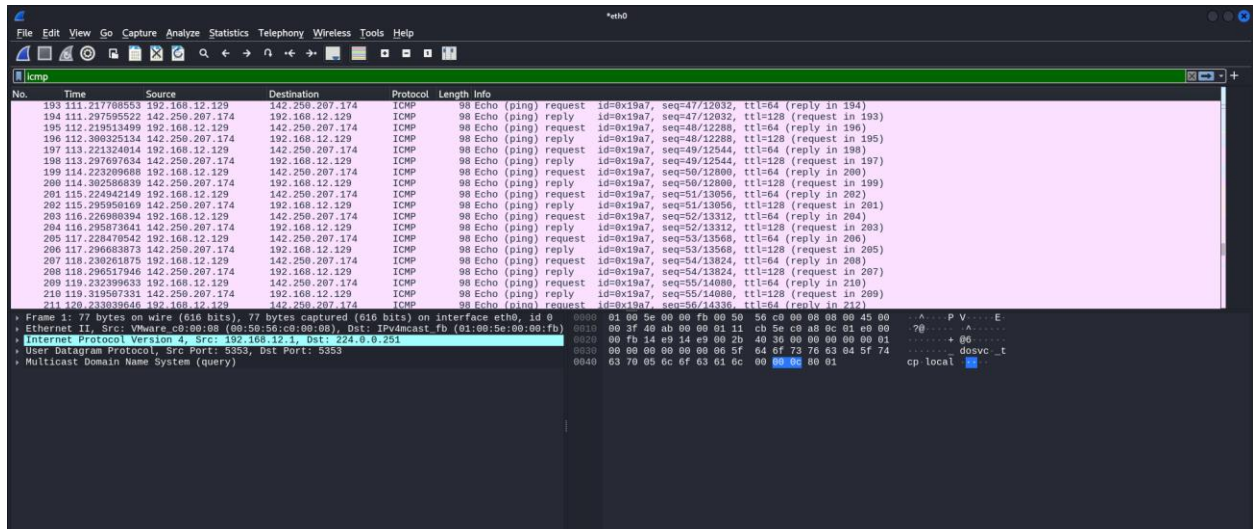


- **Step 4: Stop Capture After a Minute**
 - Wait ~60 seconds.
 - Click the red **stop icon** (top left) in Wireshark.



• Step 5: Filter Captured Packets by Protocol

- Use the filter bar at the top.
- Try these filters:
 - http → for HTTP traffic
 - dns → for DNS queries
 - tcp → for general TCP packets
 - icmp → for ping (if you used ping)



• Step 7: Export as .pcap File

- Go to File > Export Specified Packets...

- Save as:
your_capture_name.pcap

