

Wireshark Intro Lab Report

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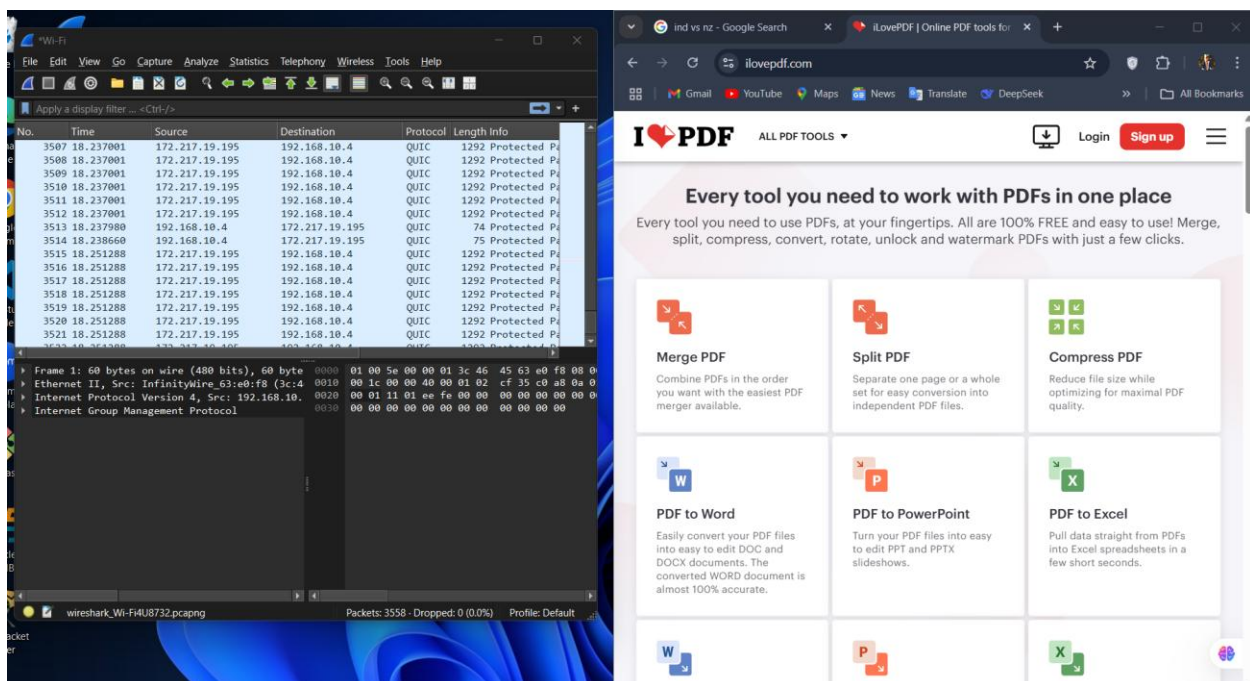
Date: 31-03-2025

Instructor: Dr. Nadeem Majeed

1. Capturing Network Traffic

1. Open Wireshark and start packet capture on your active network interface.
2. Perform basic network activity, such as visiting www.google.com.
3. Stop the capture after 30-60 seconds.

Wireshark capturing packets (Show the main Wireshark window with packets captured).



2. Identifying Your IP Address

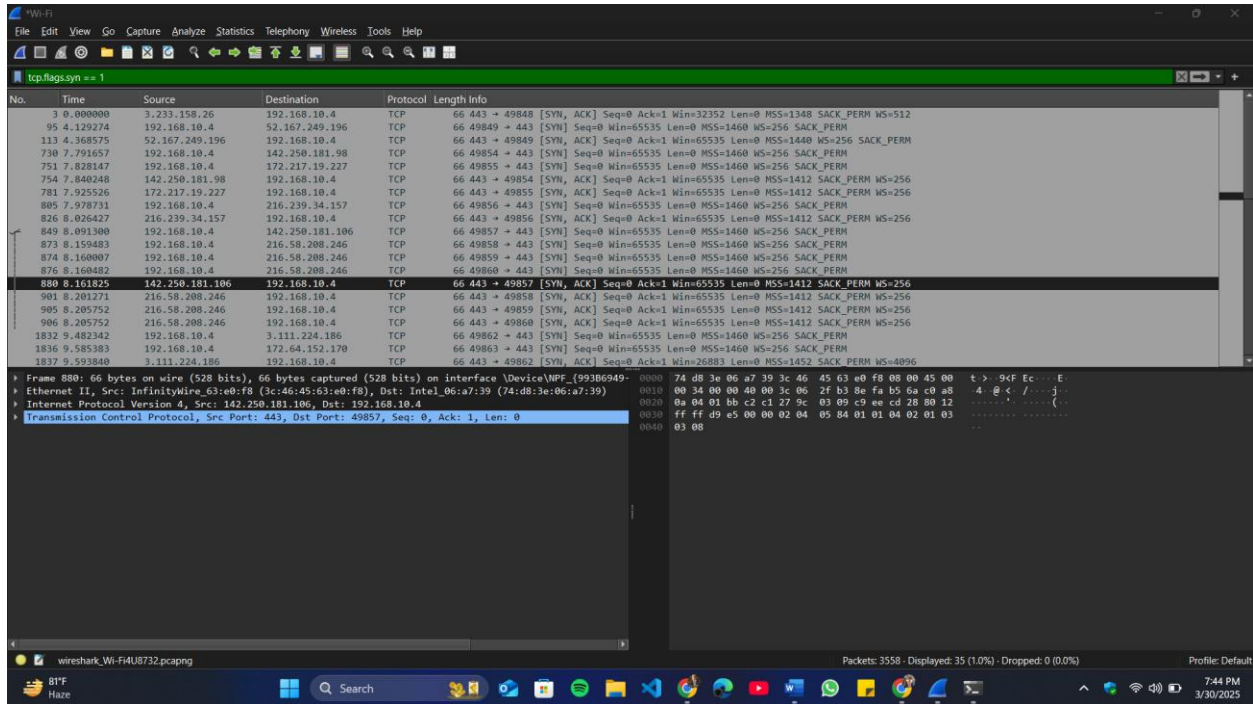
1. Open a terminal or command prompt.
 - o Windows: Run `ipconfig`
 - o Mac/Linux: Run `ifconfig` or `ip a`
2. Note your IP address.

Output of `ipconfig` / `ifconfig` showing your IP address.

4. Analyzing TCP Three-Way Handshake

1. Use the filter `tcp.flags.syn == 1` to locate a SYN packet.
2. Right-click the SYN packet and "Follow TCP Stream" to view the handshake.

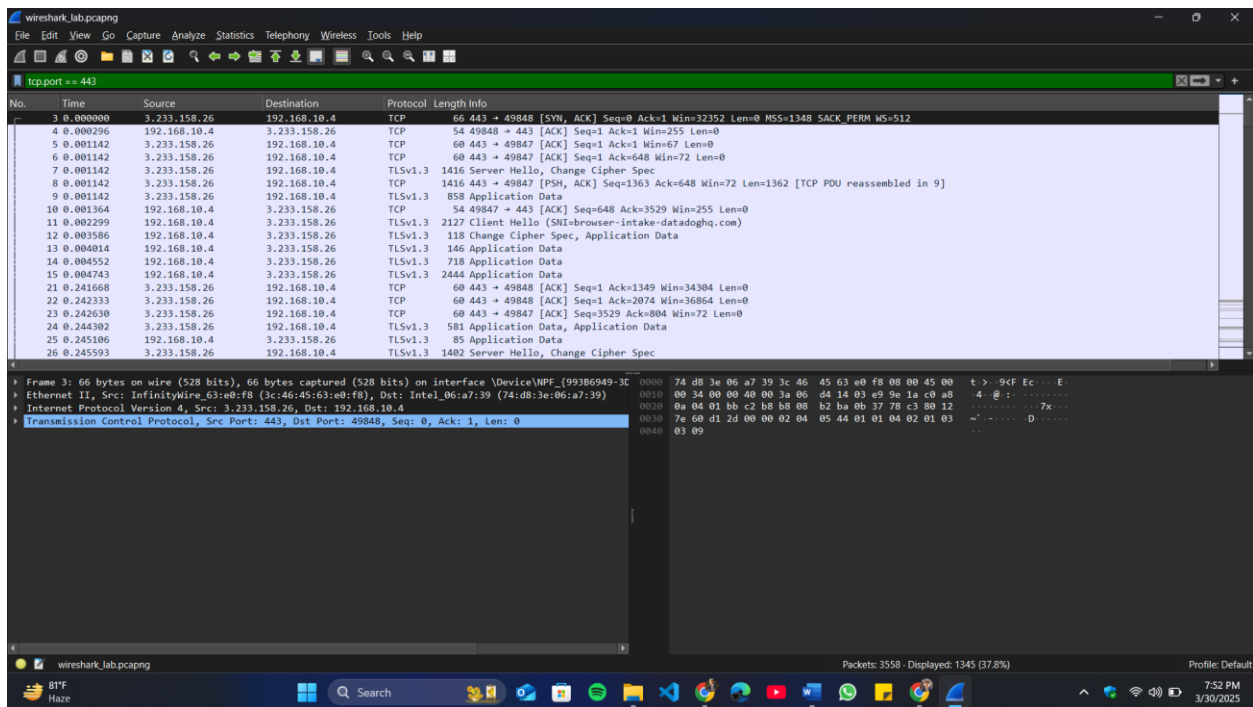
Attach Screenshot: Three-way handshake (SYN, SYN-ACK, ACK packets).



5. Examining HTTP Traffic

1. Apply the filter `http` in Wireshark.
2. Look at GET and POST requests to identify visited websites and request details.

Attach Screenshot: HTTP request headers showing requested URLs.



6. Saving and Submitting Capture File

1. Go to **File** → **Save As**, and save the file as `wireshark_lab.pcapng`