Computer Networks - UE23CS252B

4th Semester, Academic Year 2024-25

<u>Lab 3</u>

Exploring UDP with DNS and Sockets using Wireshark

Experiment 3.2: Exploring UDP with Sockets – Wireshark

Date: 10-03-2025

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Steps to Execute:-

Step 1: Find the IP Addresses

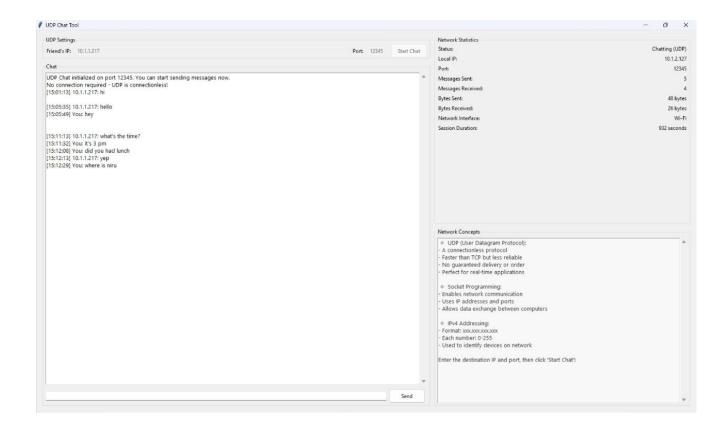
1. Open Command Prompt on both laptops.

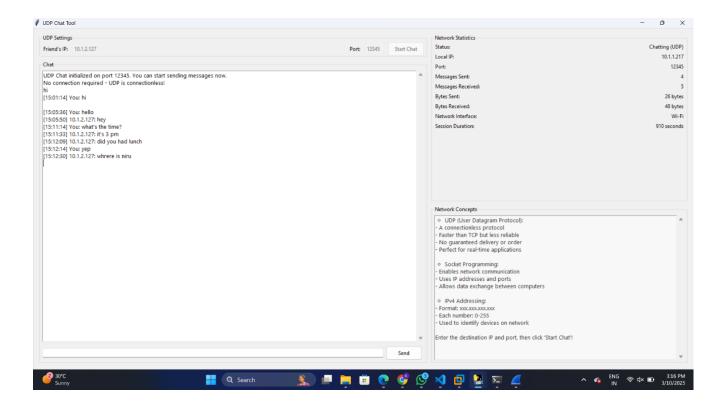
2. Run the following command: ipconfig

3. Note the IPv4 Address (e.g., 192.168.x.x) and share it with the other user.

Step 2: Launch the Chat Application (Make sure to run as Administrator)

- 1. Open Computer Networks Lab 3 Tool on both laptops.
- 2. Enter your friend's IPv4 Address in the provided field.
- 3. Enter the desired Port Number (for example = 12345), make sure both of you both the same port number.
- 4. Click on Start chat to begin the Chat. 5. Start sending and receiving messages in real-time.





Step 3: Capture UDP Packets in Wireshark

- 1. Open Wireshark on both laptops.
- 2. Select the active network adapter (Wi-Fi or Ethernet).
- 3. Apply the following filter to see only UDP packets related to the chat: udp.port == (port number of your choice eg:12345)
- 4. Start capturing packets and observe the data being transmitted.

