# Internship Task Report: Wireshark Installation and Configuration on Kali Linux

## Objective

To install, verify, and configure Wireshark on Kali Linux, and perform basic packet capturing tasks as part of a cybersecurity internship assignment.

## System Information

• Operating System: Kali Linux (latest version)

• User Privileges: Root/Sudo access available

• Tool Name: Wireshark

• Version: Verified after installation

## Installation Steps Performed

1. Opened Terminal on Kali Linux.

2. Updated package repository:

sudo apt update

3. Installed Wireshark using apt:

sudo apt install wireshark -y

4. Allowed non-root users to capture packets:

sudo dpkg-reconfigure wireshark-common

(Selected "Yes" when prompted)

5. Added user to the wireshark group:

sudo usermod -aG wireshark $USER

6. Logged out and logged back in to apply group changes.

## Verification

1. Verified installation:

wireshark --version

2. Launched Wireshark from Applications menu or using Terminal:

wireshark

## Basic Configuration and Usage

• Selected a network interface (e.g., eth0, wlan0) to start packet capturing.

• Applied capture filters and display filters for efficient traffic analysis.

• Stopped and saved capture results to .pcap file.

## File Location

• Captured packets saved at: ~/Documents/capture.pcap

## Conclusion

Wireshark was successfully installed and configured on Kali Linux. Basic packet capturing and filtering were tested, confirming that the tool is ready for network traffic analysis and further cybersecurity investigations during the internship.