FUTURE_CS_03

WiFi Security Assessment Report

Introduction

This report demonstrates wifi security assessment using kali linux tools Nmap and Wireshark.

Objectives

- Capture and analyze live network traffic using Wireshark.
- Discover hosts and open ports using Nmap.
- Evaluate network communication protocols, devices, and potential vulnerabilities.
- Understand how attackers may use these tools in real-world reconnaissance scenarios.

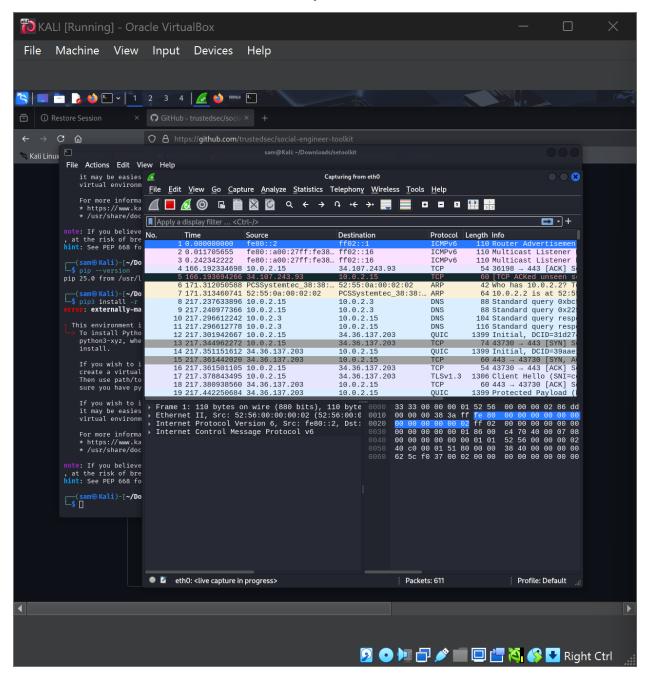
Tools

- Operating System: Kali Linux
- Wireshark
- Nmap

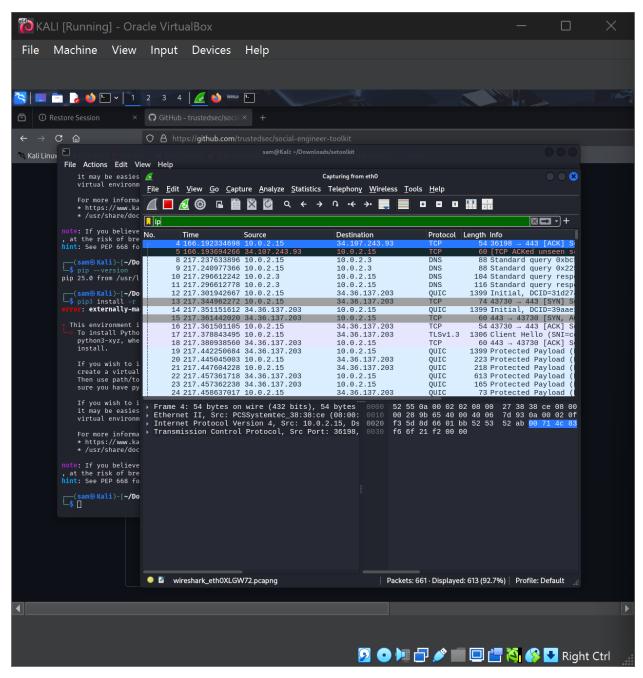
Network Setup

- Local IP: insert here
- Subnet Range: insert here

Wireshark: Network Traffic Analysis



Live Packet Capture



Observations

- Wireshark revealed common protocols like HTTP, DNS, and ARP during live capture.
- Detected services like [e.g., Apache, SSH] with version details.

Recommendations

- Disable unused ports and services.
- Apply service version updates regularly.
- Use firewall rules to restrict unnecessary traffic.
- Monitor internal traffic for suspicious behavior using IDS.

Conclusion

The combination of Wireshark and Nmap provides a deep view into the structure and behavior of network traffic. These tools help reinforce the importance of secure configurations and traffic monitoring in maintaining cyber defense.

Author: Samuel Eugene