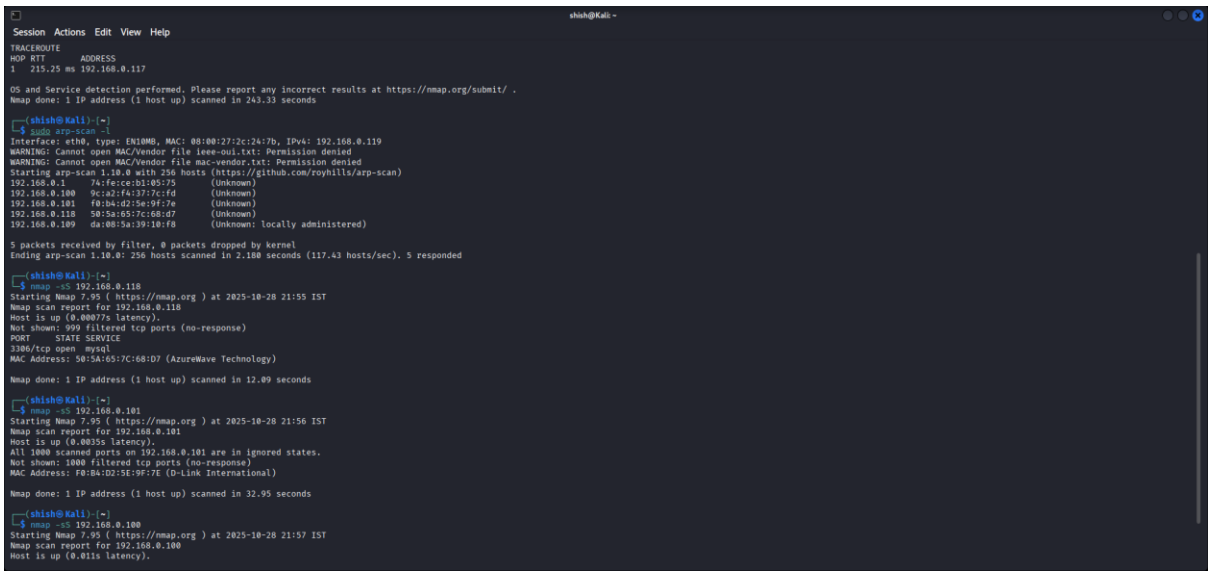
Task 1: Scan Your Local Network for Open Ports

Local IP address range 192.168.0.119/24

Command used sudo apt scan -l

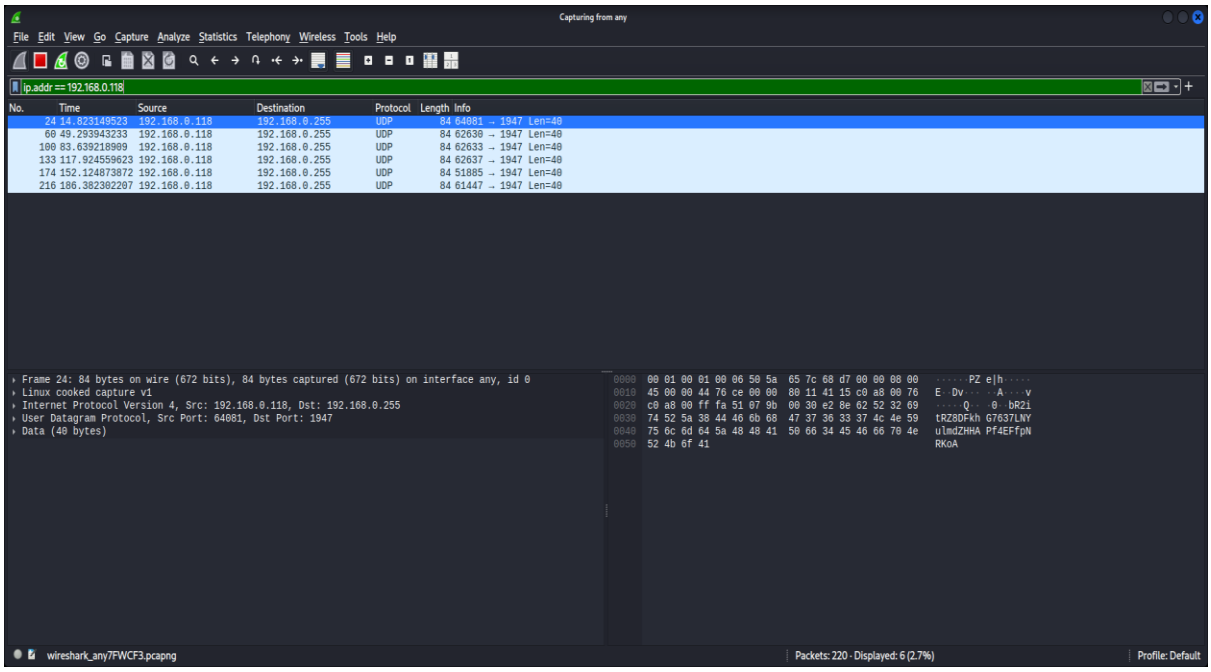
Run: nmap -sS 192.168.0.118



Find the open port 3306 - mysql

Analyzing a packet capture using Wireshark

Here used pocket filtering to capture the packet using wireshark.



Open Port: 3306 (MySQL Database Service)
Risk Level: High (if accessible externally)
Potential Threats: Unauthorized data access, brute-force attacks, SQL injection through exposed DB, data interception.
Recommendations: Restrict access, enable encryption, apply authentication hardening, and regularly patch MySQL.