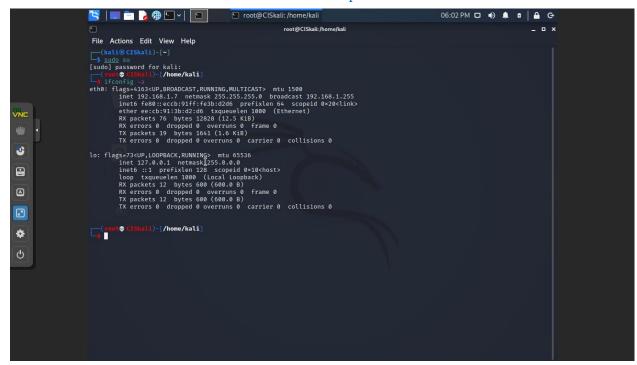
Homework 3: Packet Analysis (Part 2)

- This is an individual assignment, and worth 20 points.
- The due date is Tuesday, September 28, 2:30 (Sec 01) / 5:30 (Sec 76).
- You should not scan any live servers using Nmap or send malicious packets using hping3. If caught, you may be expelled from school (not a joke!).
- Please zoom in on the outcomes.
- Use the accompanying outcome document to report your results.
- Follow the naming convention.
- YOU ARE NOT ALLOWED TO DO THIS DURING THE CLASS.

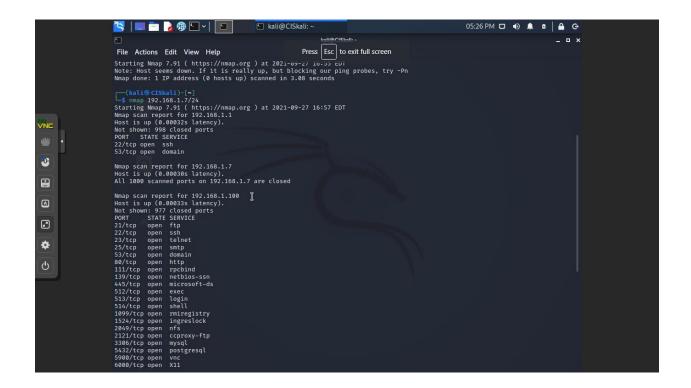
Task 1. Identifying the IP address of Kali

• Find the IP address and the subnet mask of **Kali**. Report the result with a screenshot.



Task 2. Performing a Ping Sweeping

Take a screenshot of the Nmap scan report. The screenshot should include the command you used.



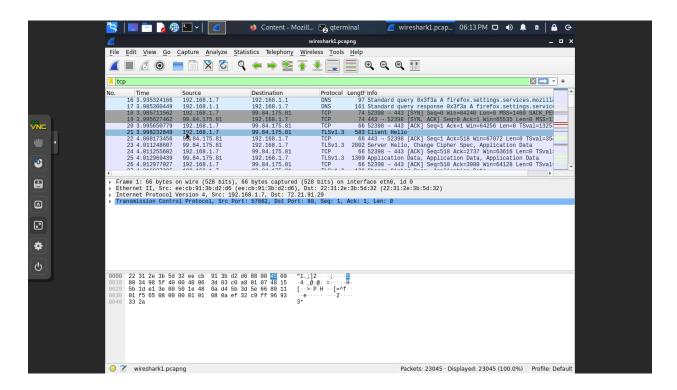
• Report the IP address of **Metasploitable**. 192.168.1.100

Task 3. Performing a Port Scanning

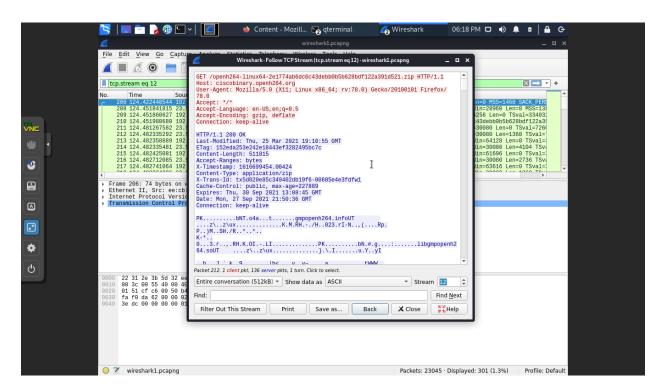
• Take a screenshot of the scan report. The screenshot must include the command you used.

Task 4. Analyzing FTP Signatures

- Task
- 1) Identify the TCP packets used for the initial three-way handshake for the connection to Metasploitable. Take a screenshot of those TCP packets. Those packets are placed right before the first ftp packet.



2) Identify the TCP stream used for the authentication of the client to the FTP server. Take a screenshot of the content of the TCP stream. For this, go to Analyze > Follow > TCP Stream and locate the TCP stream.

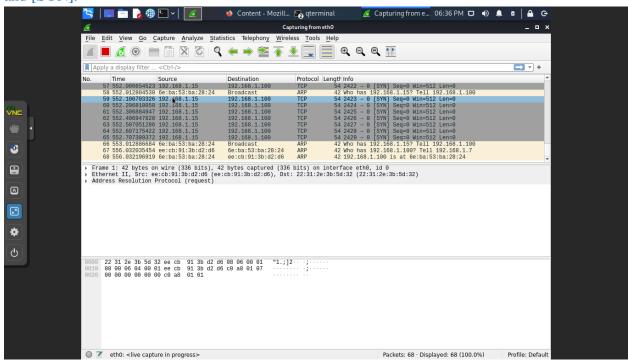


3) After examining the TCP stream in 2) above, discuss security implications of the file transfer.

Lack of encryption

Task 5. SYN Flooding Attack

1) Report your Wireshark capture in a screenshot that displays the source and destination IPs and [SYN].



2) Also, take a screenshot that shows the command you used.

