

Performing Active Reconnaissance (4e)

Ethical Hacking, Fourth Edition - Lab 02

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Time on Task:

110 hours, 29 minutes

Progress:

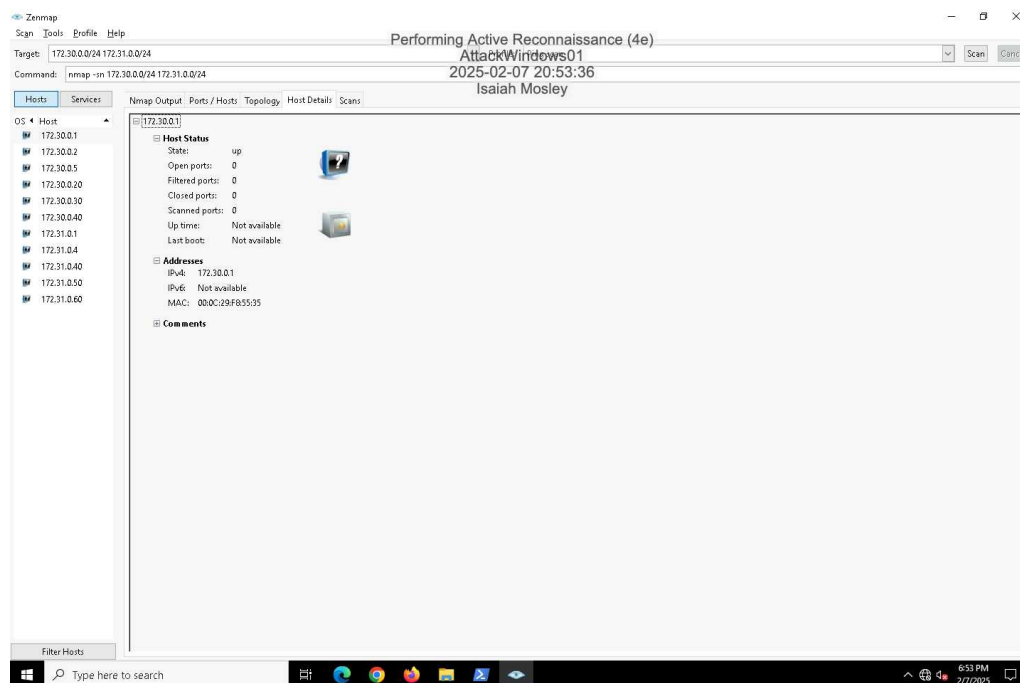
100%

Report Generated: Tuesday, December 2, 2025 at 1:22 PM

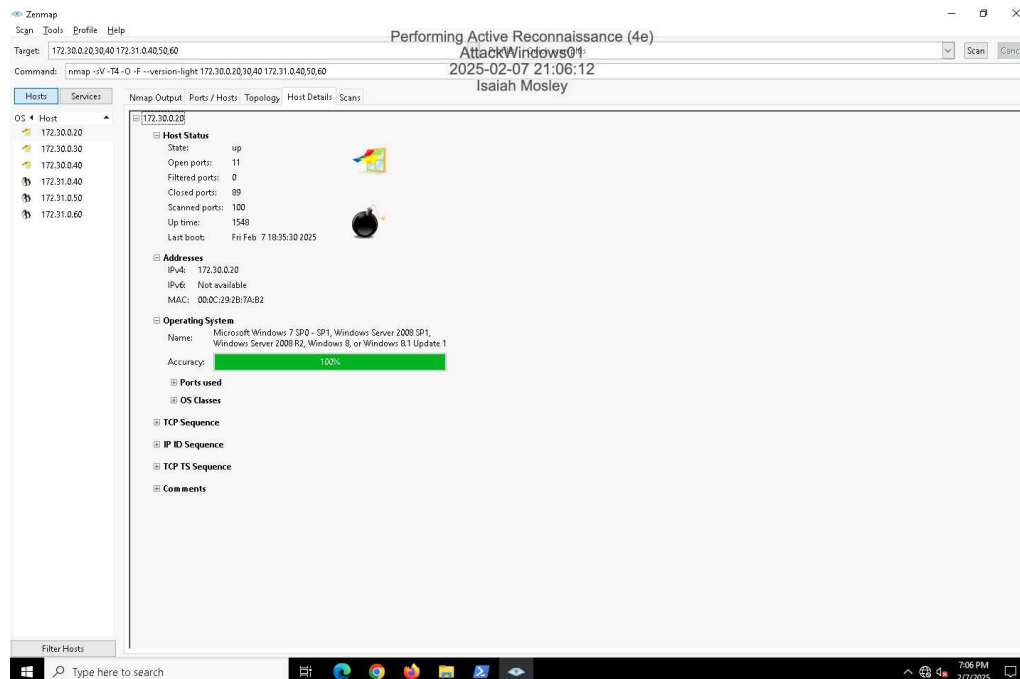
Section 1: Hands-On Demonstration

Part 1: Use Zenmap to Scan a Target Network

8. Make a screen capture showing the hosts identified by the Ping scan.



15. Make a screen capture showing the host details for 172.30.0.20 from Quick scan plus.



19. Document the IP addresses and operating systems identified.

IPv4:172.30.0.20 OS: Microsoft Window7 SP0-SP1, Windows Server 2008 SP1, Windows Server 2008 R2, Windows 8, or Windows 8.1 Update 1

IPv4:172.30.0.30 OS: Microsoft Windows Server R2 Update 1

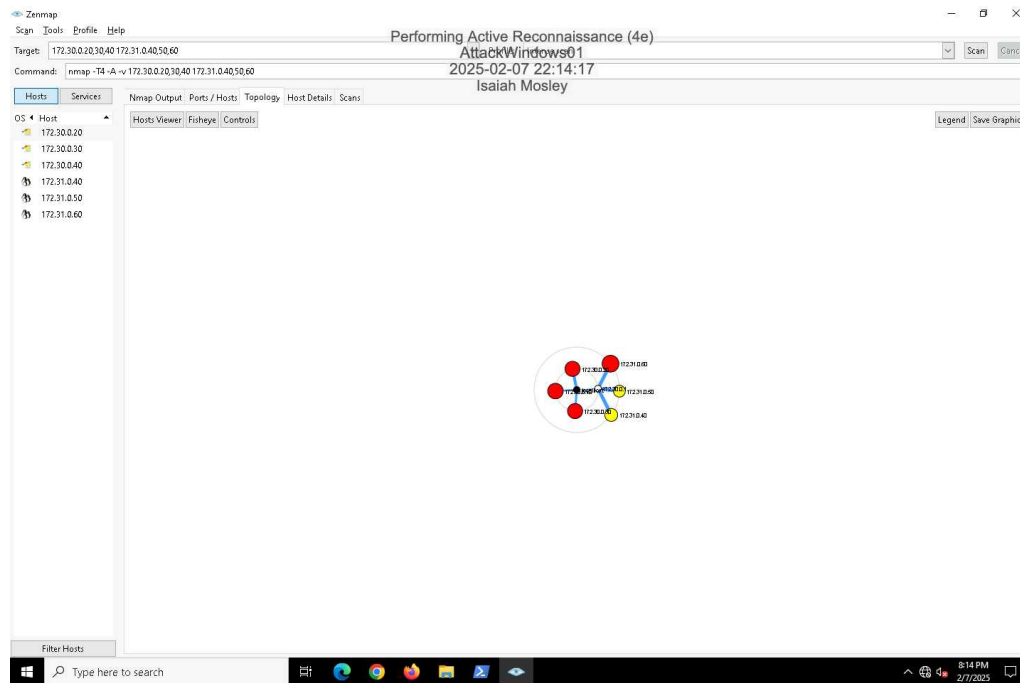
IPv4:172.30.0.40 OS: Microsoft Windows Server 2016 build 10586 - 14393

IPv4:172.31.0.40 OS: Linux 2.6.32

IPv4:172.31.0.50 OS: Linux 3.11 - 4.1

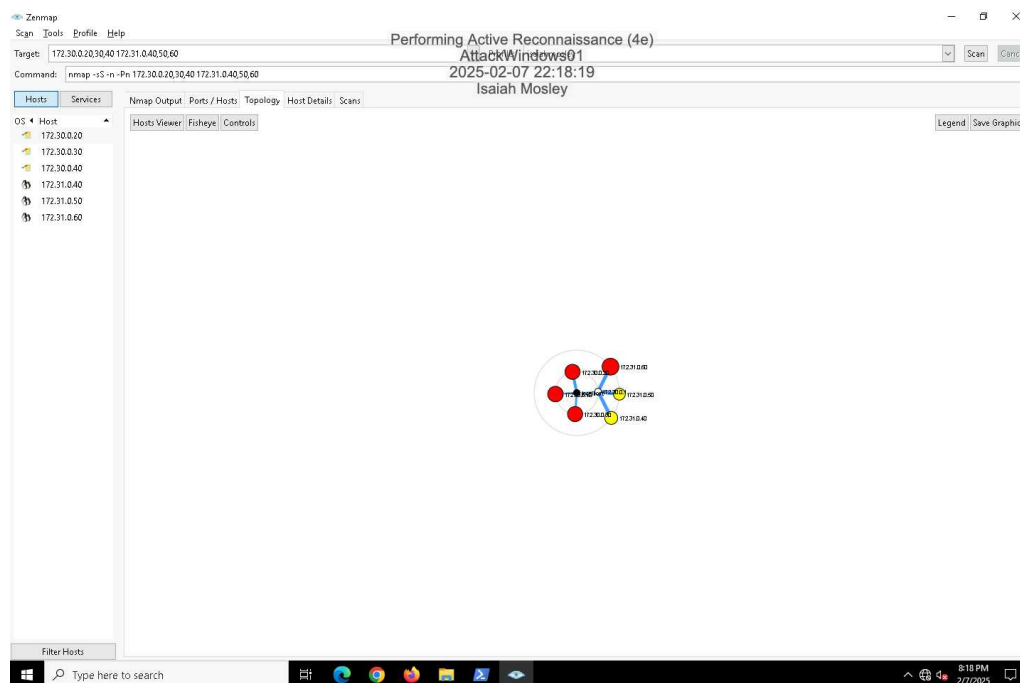
IPv4172.31.0.60 OS: Linux 2.6.15 - 2.6.26 (Likely embedded)

26. **Make a screen capture** showing the **network topology**.

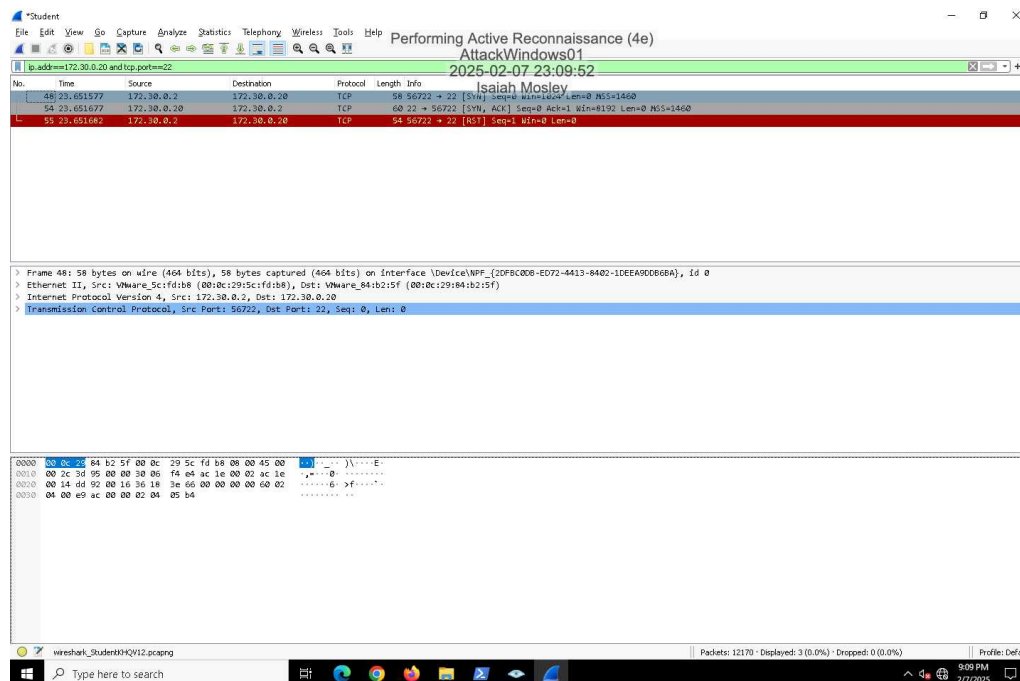


Part 2: Examine Scan Traffic with Wireshark

11. Make a screen capture showing the new scan profile selected with the corresponding nmap command line.



21. Make a screen capture showing the 3-packet sequence for the SYN scan of 172.30.0.20 port 22.

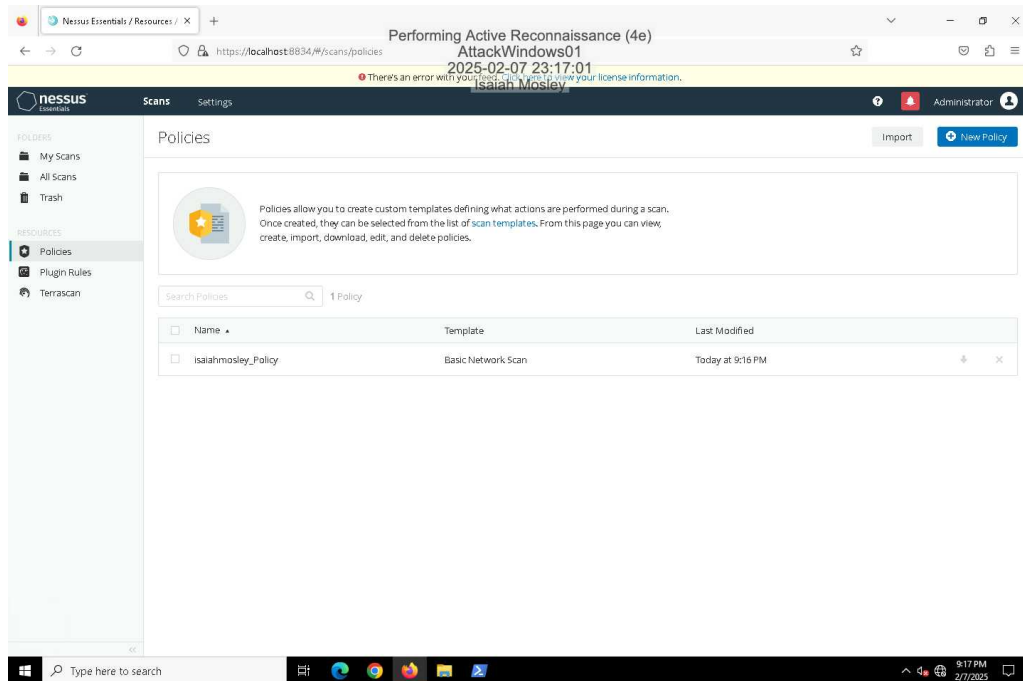


Part 3: Run a Vulnerability Scan with Nessus

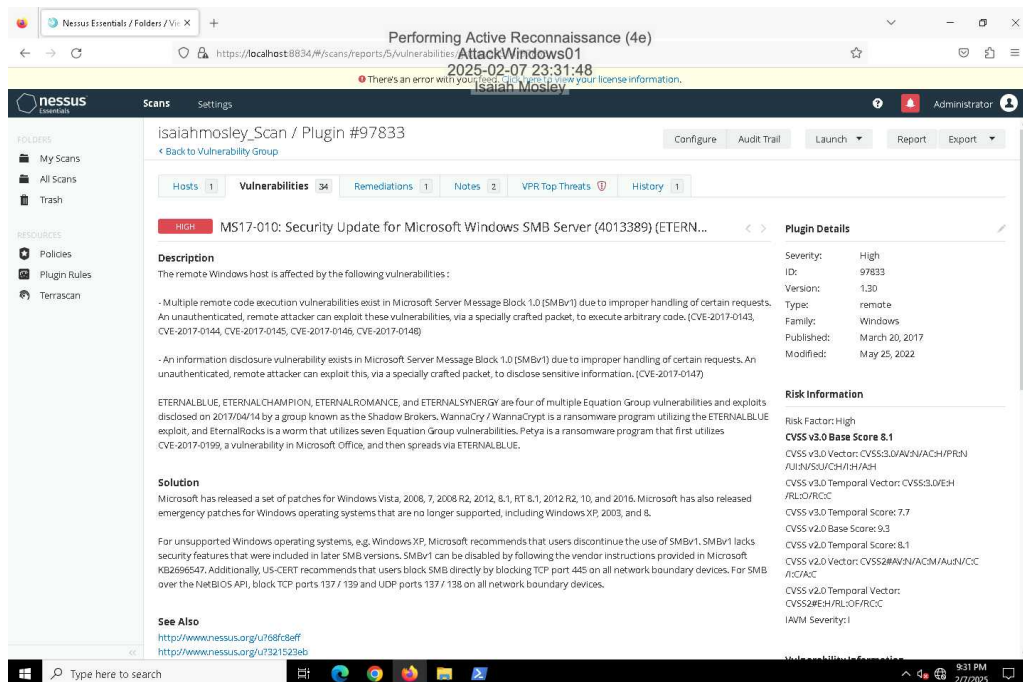
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10. Make a screen capture showing the new Nessus policy.



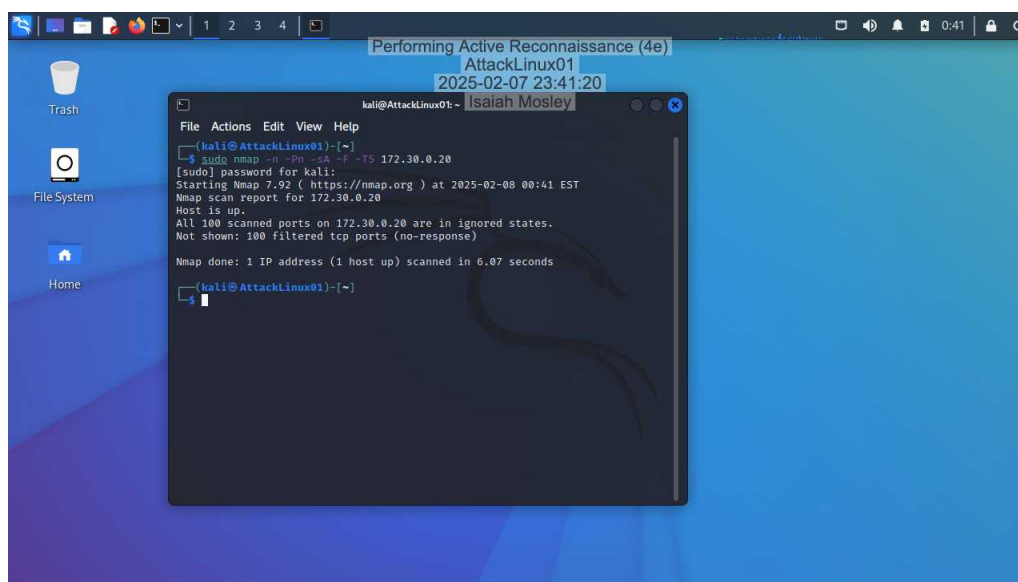
22. Make a screen capture showing the vulnerability title and the Plugin information for MS17-010.



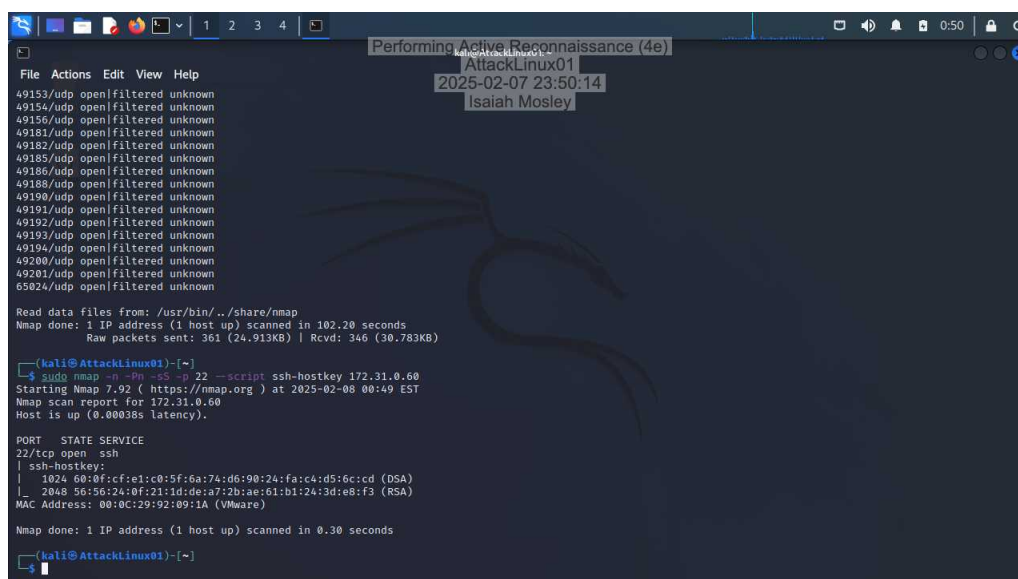
Section 2: Applied Learning

Part 1: Use Nmap to Scan a Target Network

7. Make a screen capture showing the results of the ACK scan on 172.30.0.20.



11. Make a screen capture showing the results of the scan with the ssh-hostkey script.

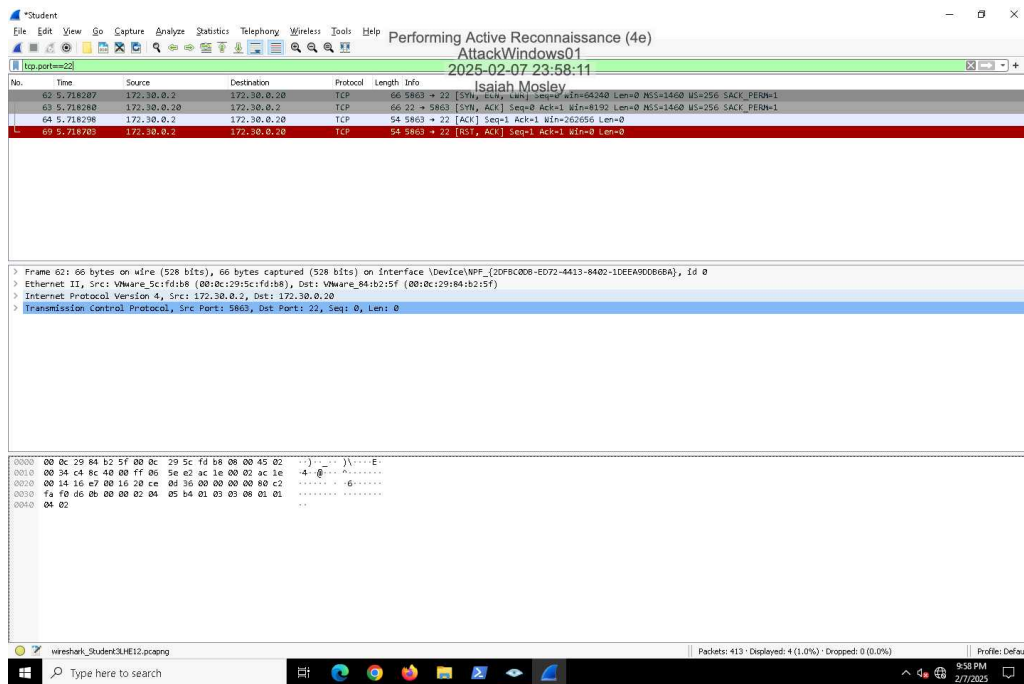


Part 2: Capture Traffic for a TCP Connect Scan

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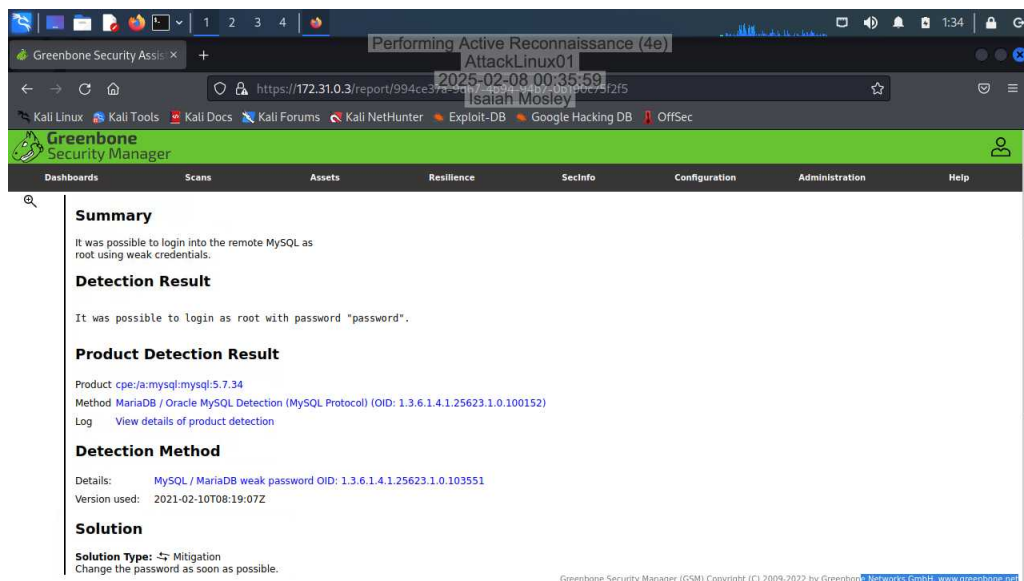
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11. Make a screen capture showing the 4-packet sequence for the TCP Connect scan on 172.30.20 port 22.



Part 3: Run a Vulnerability Scan with OpenVAS

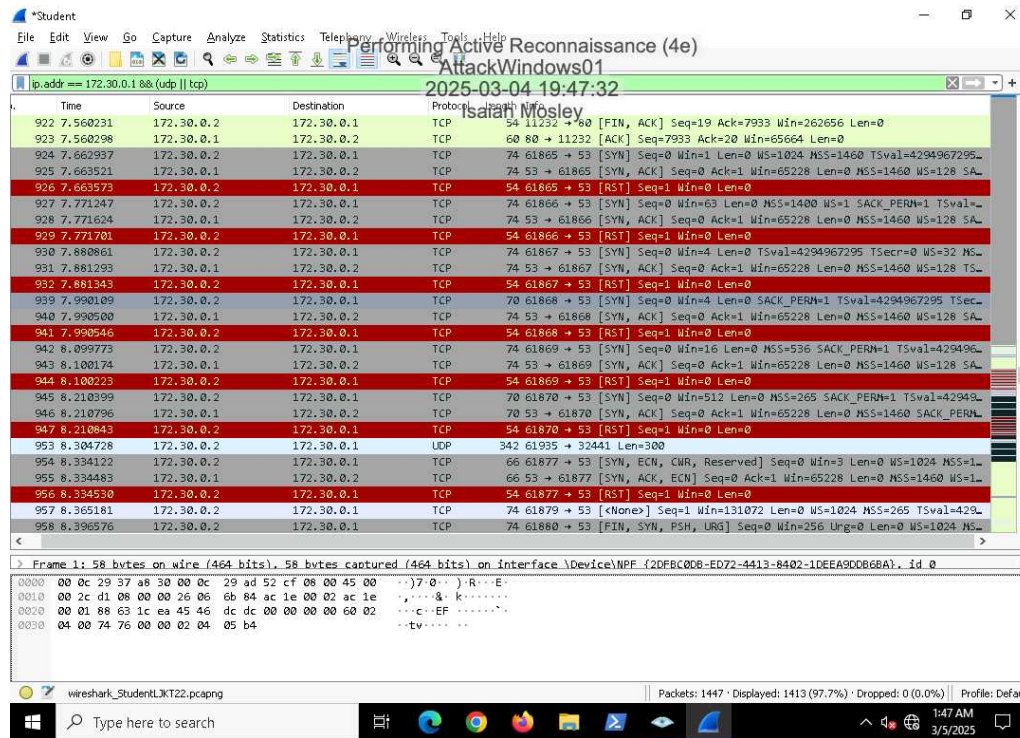
17. Make a screen capture showing the details of the MySQL / MariaDB vulnerability, including the Detection Result and the Solution.



Section 3: Challenge and Analysis

Part 1: Capture Traffic for a UDP Scan

Make a screen capture showing the sequence of packets from the UDP scan of port 53 on 172.30.0.1.



Part 2: Create a New Zenmap Profile

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Make a screen capture showing the new profile selected in Zenmap and the results of using the profile to scan 172.31.0.60.

