Assessing the Network with Common Security Tools (3e)

Network Security, Firewalls, and VPNs, Third Edition - Lab 01

Student: Email:
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Time on Task: Progress:
17 hours, 24 minutes 100%

Report Generated: Sunday, September 14, 2025 at 2:39 PM

Section 1: Hands-On Demonstration

Part 1: Explore the Local Area Network

4. Make a screen capture showing the ipconfig results for the Student adapter on the vWorkstation.

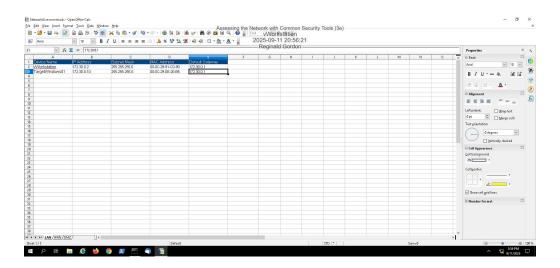


7. Make a screen capture showing the ipconfig results for the Student adapter on TargetWindows01.



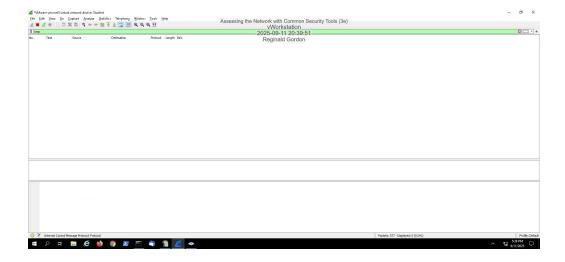
15. Make a screen capture showing the updated ARP cache on the vWorkstation.

19. Make a screen capture showing the completed LAN tab of the Network Assessment spreadsheet.

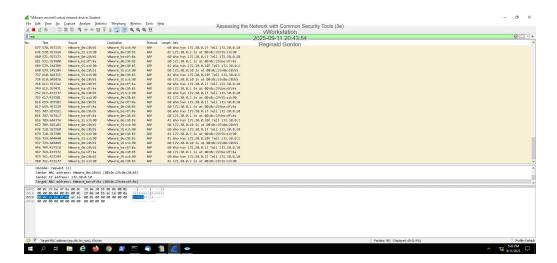


Part 2: Analyze Network Traffic

9. Make a screen capture showing the ICMP filtered results in Wireshark.



12. Make a screen capture showing the ARP filtered results in Wireshark.



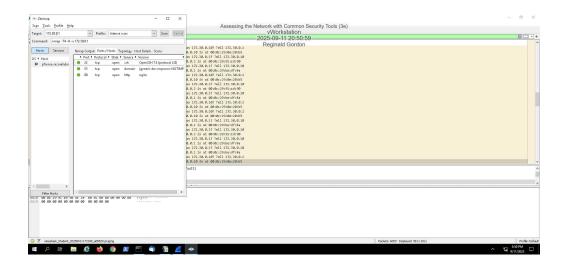
18. **Compare** the Regular scan results for ICMP and ARP traffic with the results from the Ping scan.

The regular scan generated more ARP traffic, but no ICMP traffic.

24. **Compare** the Intense scan results with the results from the Ping scan.

The Intense scan was able to generate traffic for ICMP, and ARP.

28. Make a screen capture showing the contents of the Ports/Hosts tab.

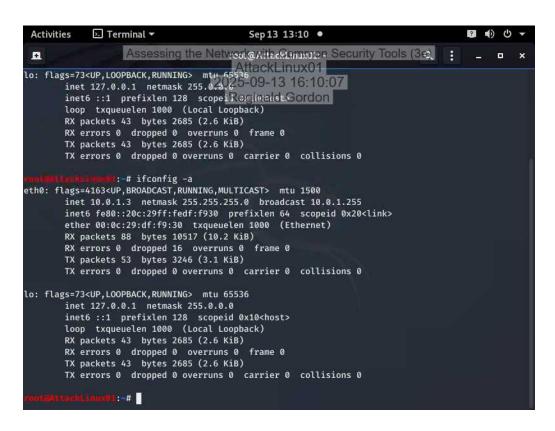


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Section 2: Applied Learning

Part 1: Explore the Wide Area Network

6. Make a screen capture showing the ifconfig results on AttackLinux01.



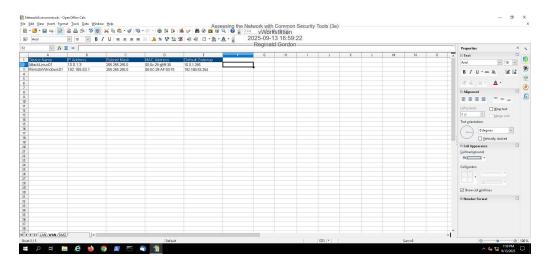
12. Make a screen capture showing the ipconfig results on RemoteWindows01.

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18. Make a screen capture showing the updated ARP cache on RemoteWindows01.

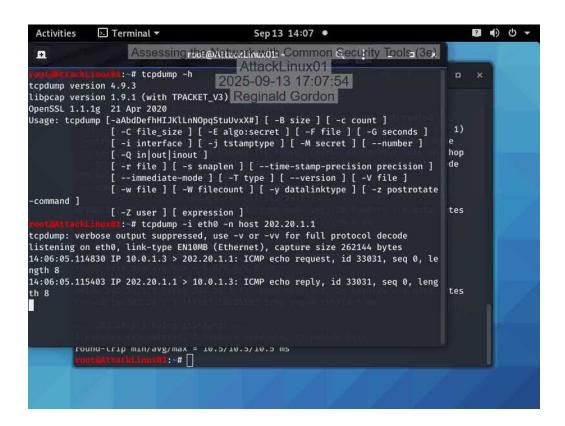


22. Make a screen capture showing the completed WAN tab of the Network Assessment spreadsheet.

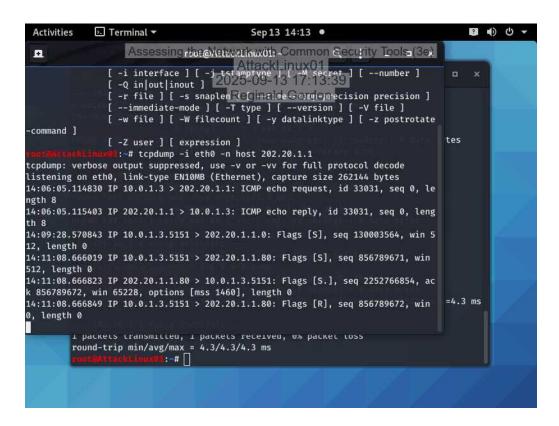


Part 2: Analyze Network Traffic

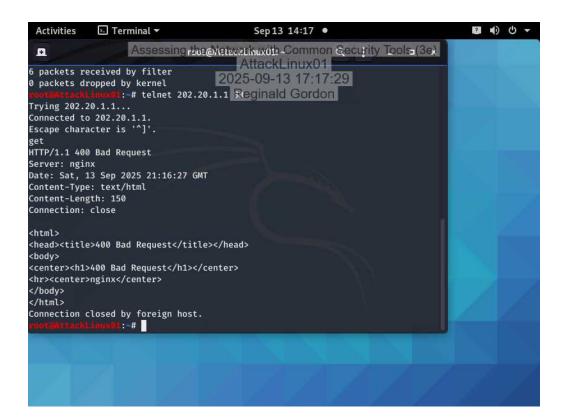
9. Make a screen capture showing topdump echo back the captured packets.



12. Make a screen capture showing the attempted three-way handshake in tcpdump.



17. Make a screen capture showing the results of the get command.

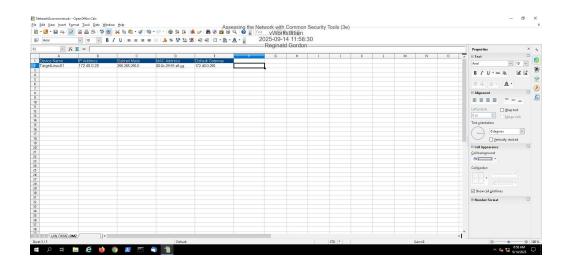


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Section 3: Challenge and Analysis

Part 1: Explore the DMZ

Make a screen capture showing the completed DMZ tab of the NetworkAssessment spreadsheet.



Part 2: Perform Reconnaissance on the Firewall

Briefly summarize and analyze your findings in a technical memo to your boss.

ICMP packets showed up after running an Intense scan in Zenmap. ARP packets didn't appear in the pfSense firewall MAC add search. DNS packets had several inquiries. Ports 22 (Ubuntu) and 80 (Apache) were open on the pfSense firewall.