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

Student: Email:

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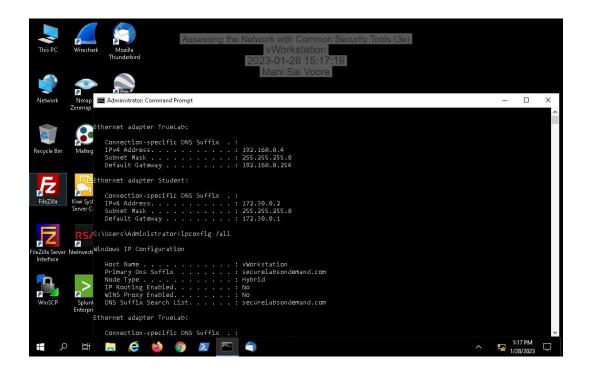
Time on Task: Progress:
7 hours, 52 minutes 100%

Report Generated: Sunday, January 29, 2023 at 12:09 AM

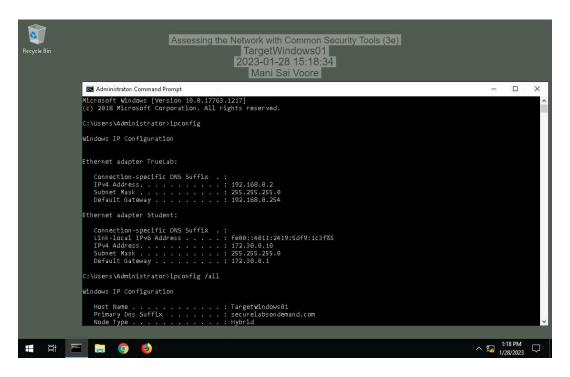
Section 1: Hands-On Demonstration

Part 1: Explore the Local Area Network

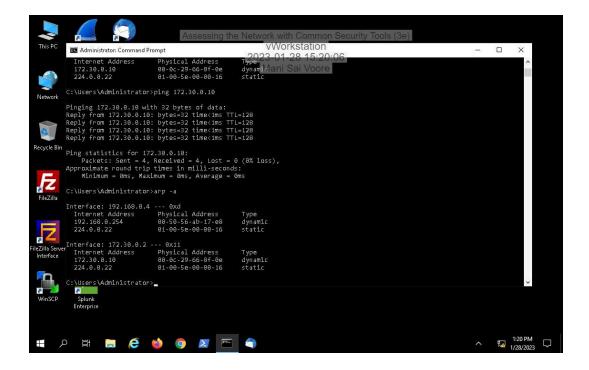
4. Make a screen capture showing the ipconfig results for the Student adapter on the vWorkstation.



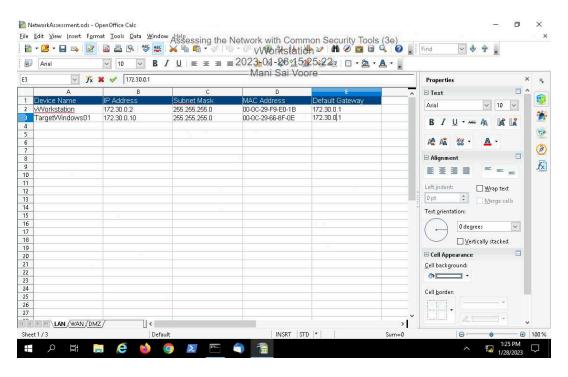
7. Make a screen capture showing the ipconfig results for the Student adapter on TargetWindows01.



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

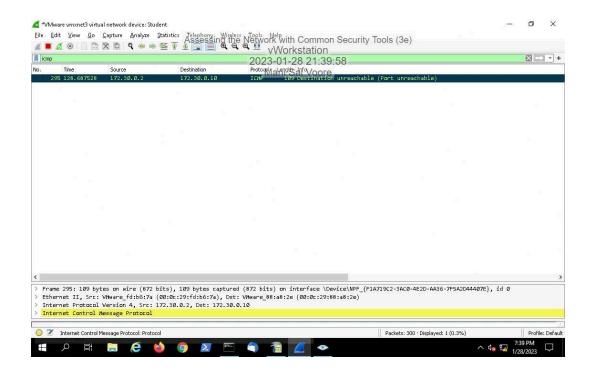


19. Make a screen capture showing the completed LAN tab of the Network Assessment spreadsheet.

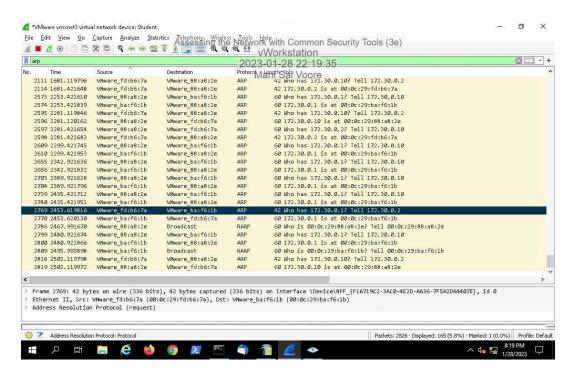


Part 2: Analyze Network Traffic

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

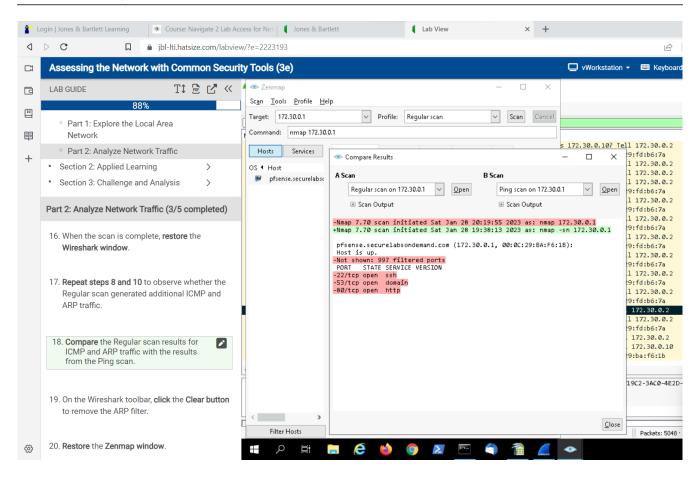


12. Make a screen capture showing the ARP filtered results in Wireshark.



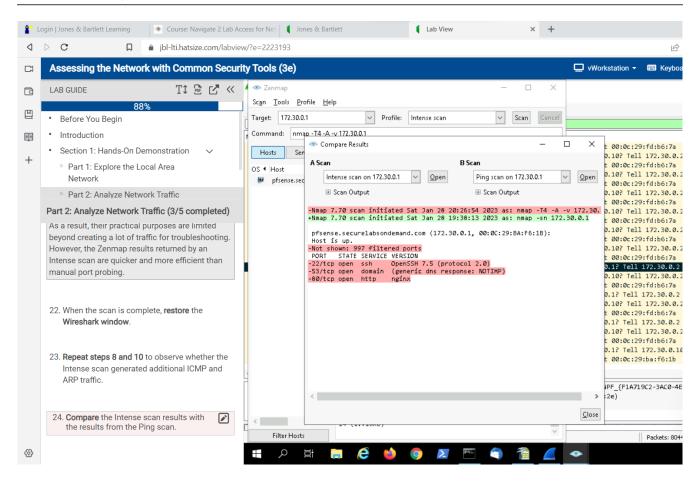
18. **Compare** the Regular scan results for ICMP and ARP traffic with the results from the Ping scan.

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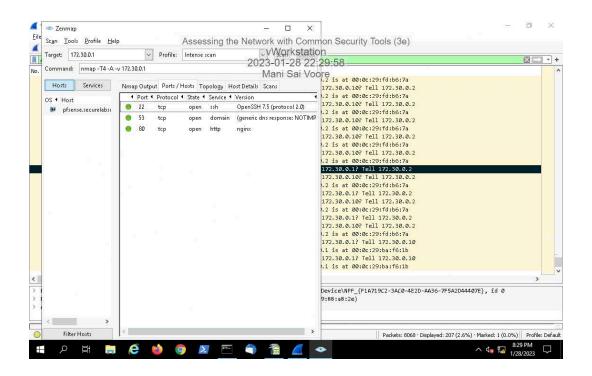


24. Compare the Intense scan results with the results from the Ping scan.

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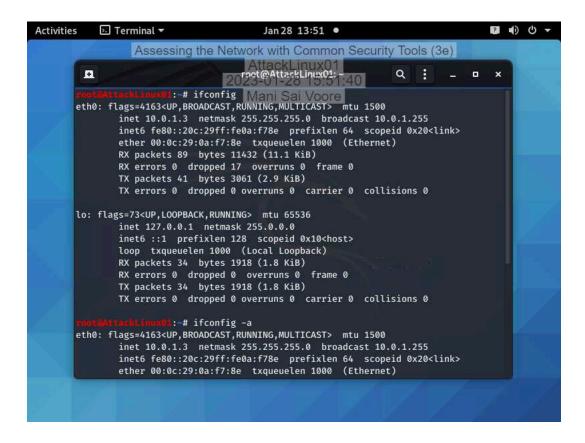
28. Make a screen capture showing the contents of the Ports/Hosts tab.



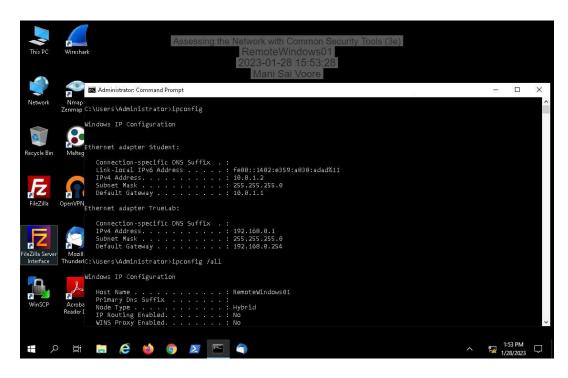
Section 2: Applied Learning

Part 1: Explore the Wide Area Network

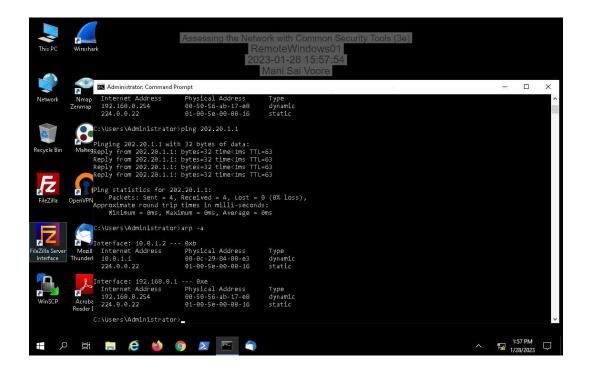
6. Make a screen capture showing the ifconfig results on AttackLinux01.



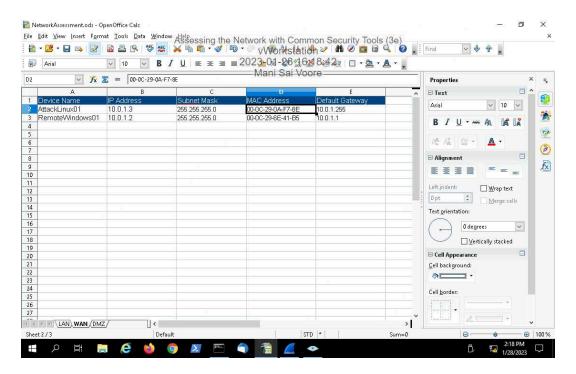
12. Make a screen capture showing the ipconfig results on RemoteWindows01.



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

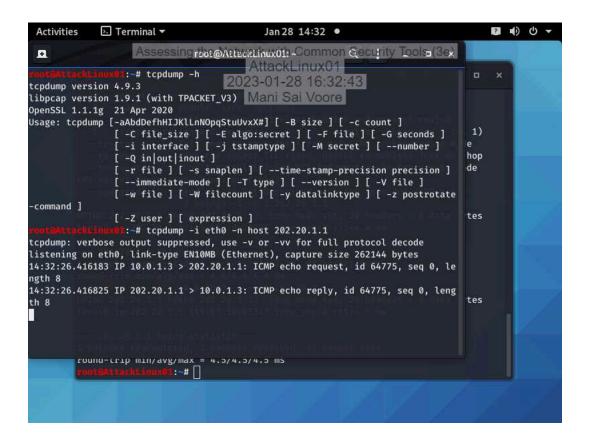


22. Make a screen capture showing the completed WAN tab of the Network Assessment spreadsheet.

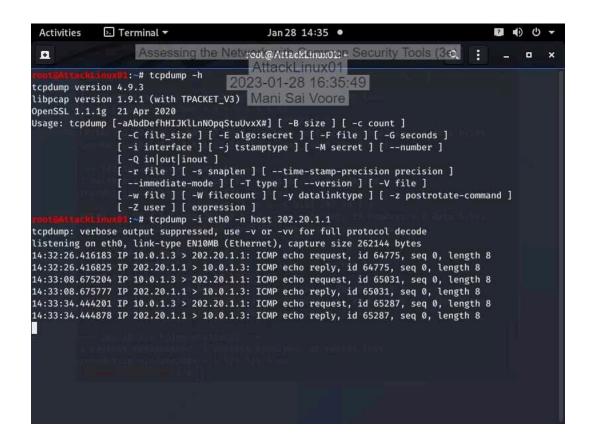


Part 2: Analyze Network Traffic

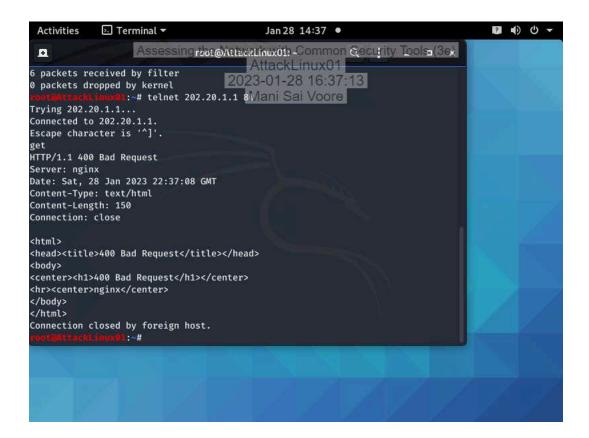
9. Make a screen capture showing tcpdump echo back the captured packets.



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



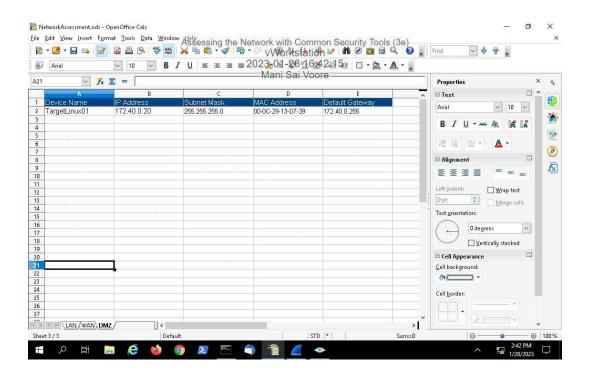
17. Make a screen capture showing the results of the get command.



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

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

1. ICMP echo request and reply packets were received by the firewall with the identification number, sequence number 0 and 27910 length 8 in the lab for ICMP packets towards firewall.
2. In ARP packets towards the firewall, ARP packets were received for the IP address 10.0.1.3.5151 with a source port of 80 and a destination IP of 202.20.1.1, which included the flags, sequence number 1827888039, window size 512, and length 0. Apparently, an ARP packet was also received from 202.20.1.1 with a source port 80, destination IP of 10.0.1.3.5151, flags, sequence number 1018804028, ack no1827888040, and window size 165228.
3.No DNS (Domain Name System)
4. 80 and 22 ports are opened and running in the fire wall server.