

Designing a Secure Network Topology (3e)

Network Security, Firewalls, and VPNs, Third Edition - Lab 03

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Time on Task:

4 hours, 44 minutes

Progress:

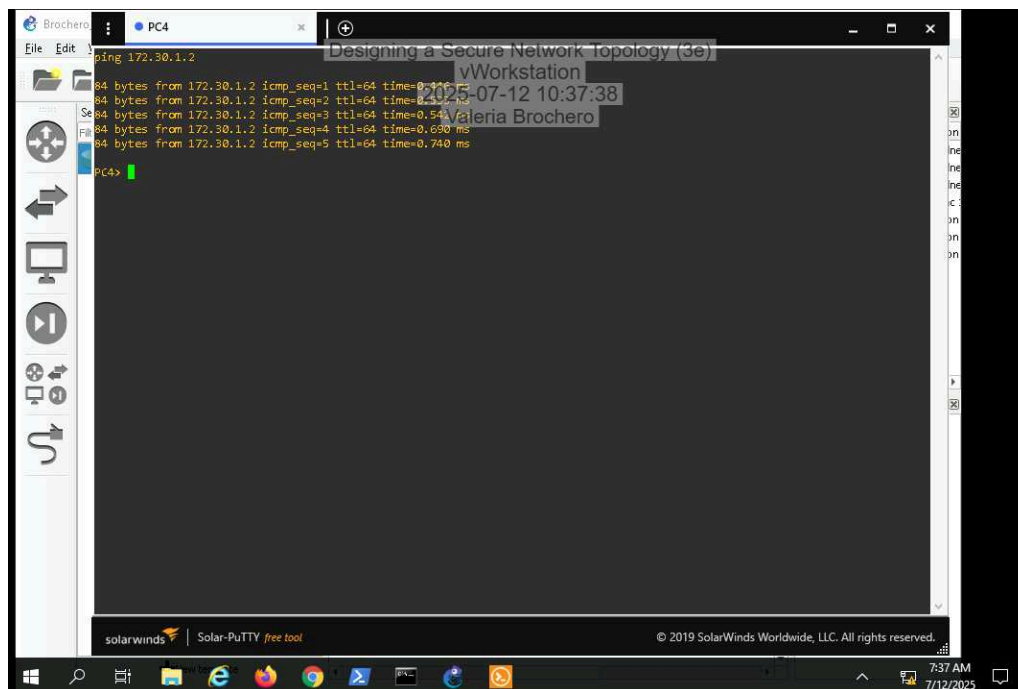
83%

Report Generated: Sunday, July 13, 2025 at 3:39 PM

Section 1: Hands-On Demonstration

Part 1: Design a Simple Network Topology

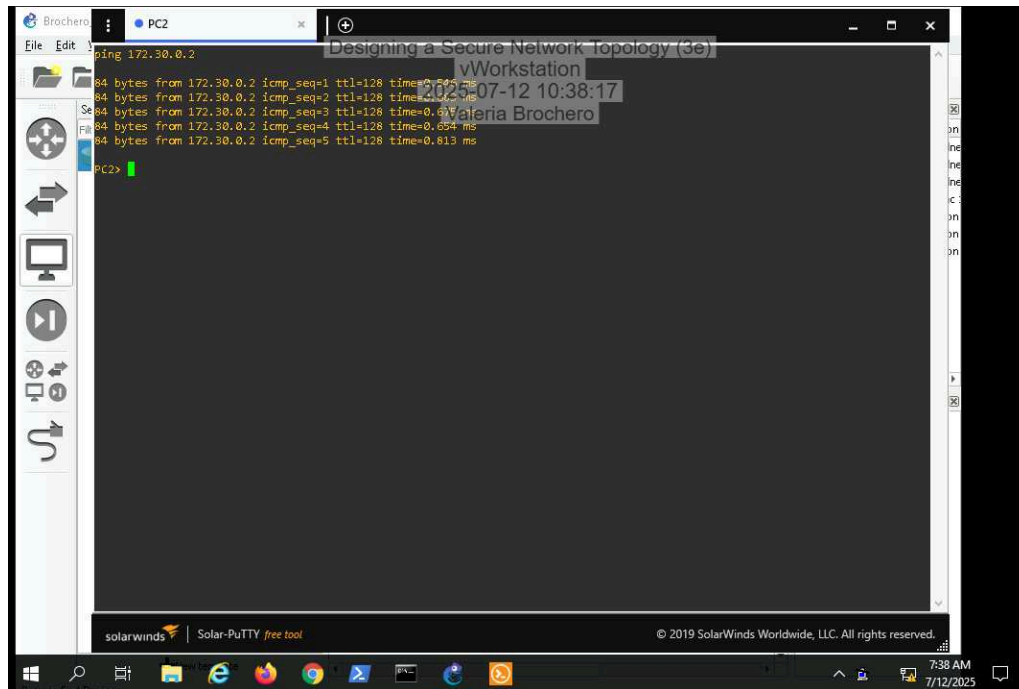
34. Make a screen capture showing the results of the ping attempt from PC4 to PC3.



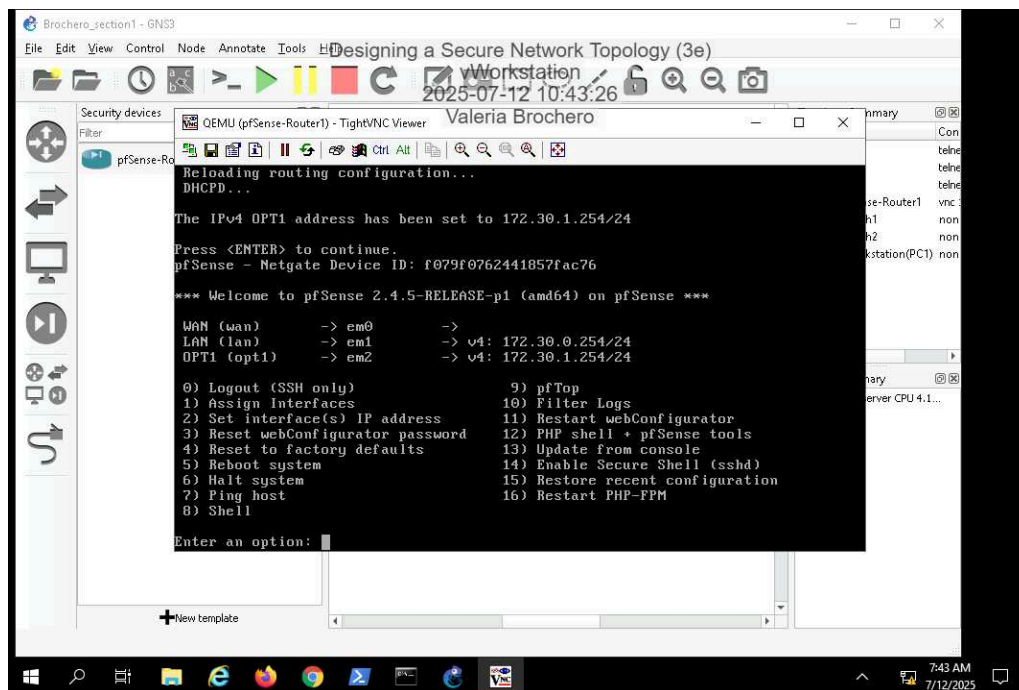
Designing a Secure Network Topology (3e)

Network Security, Firewalls, and VPNs, Third Edition - Lab 03

37. Make a screen capture showing the results of the ping attempt from PC2 to the vWorkstation (172.30.0.2).



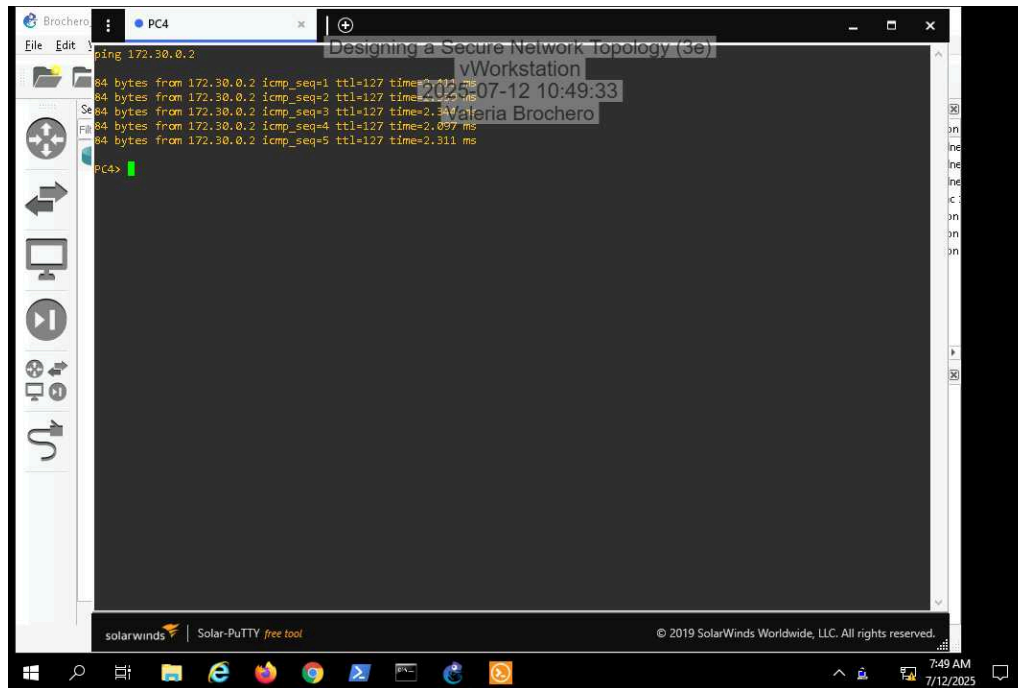
49. Make a screen capture showing the IP address assignments in the pfSense console.



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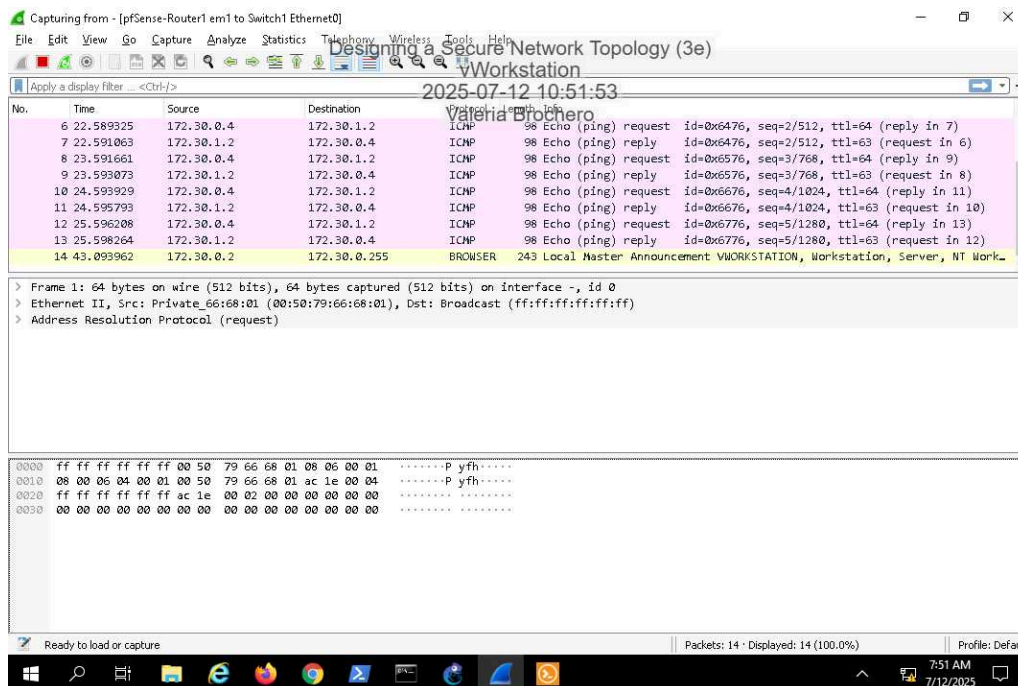
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72. Make a screen capture showing the successful ping from PC4 to the vWorkstation.



Part 2: Capture Network Traffic to Validate Connectivity

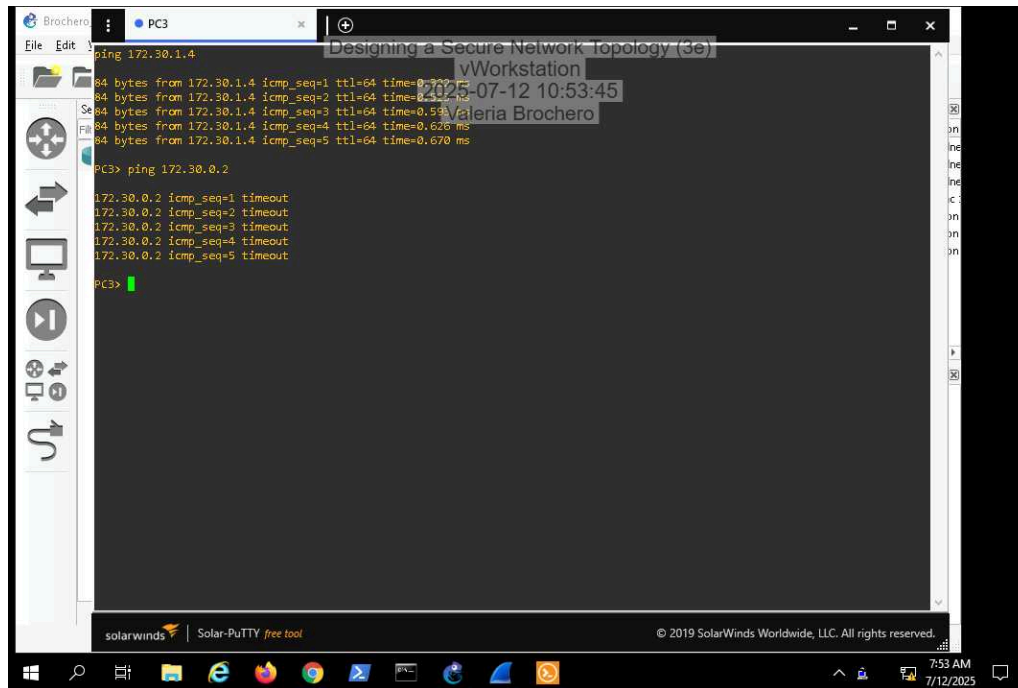
7. Make a screen capture showing the Wireshark capture for the PC2 to PC3 ping request.



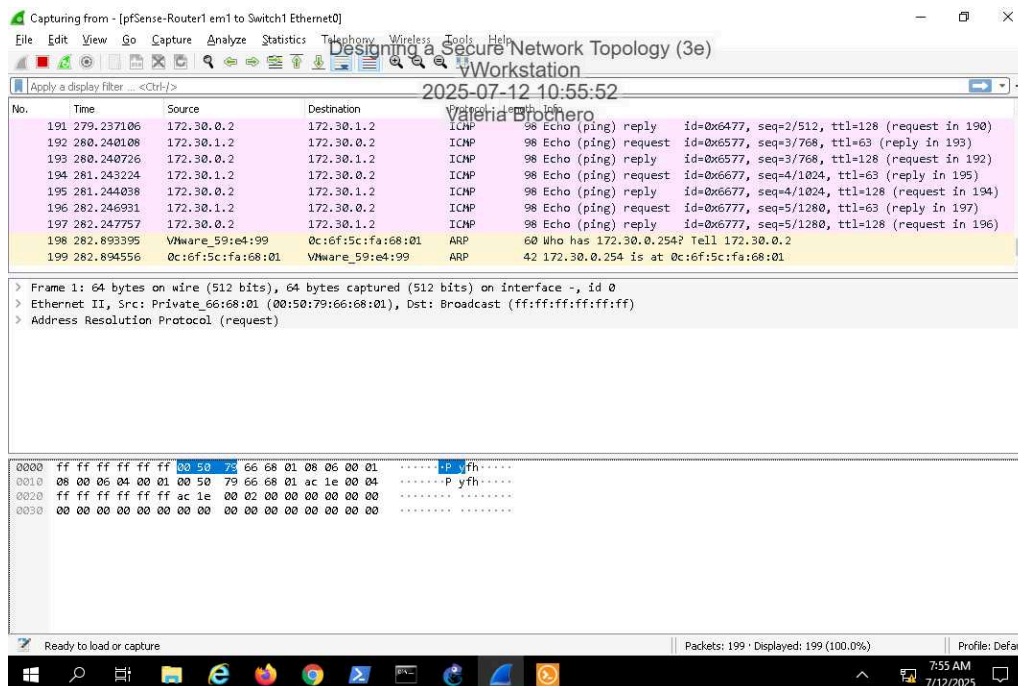
Designing a Secure Network Topology (3e)

Network Security, Firewalls, and VPNs, Third Edition - Lab 03

17. Make a screen capture showing the timed out ping request.



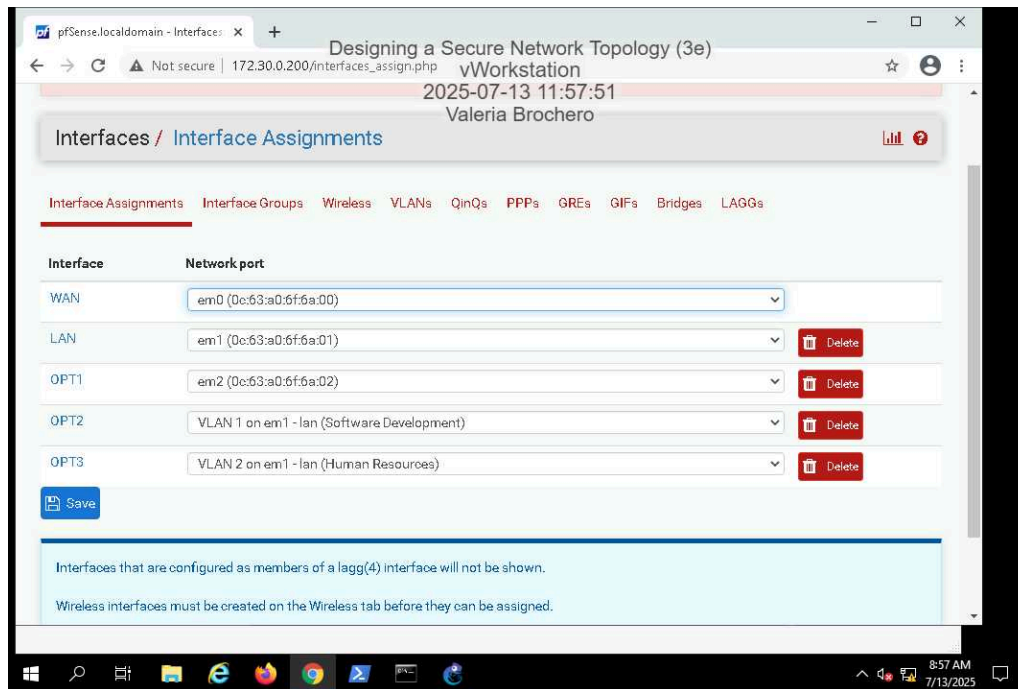
20. Make a screen capture showing the Wireshark capture for the PC3 to vWorkstation ping request.



Section 2: Applied Learning

Part 1: Design a More Complex Network Topology

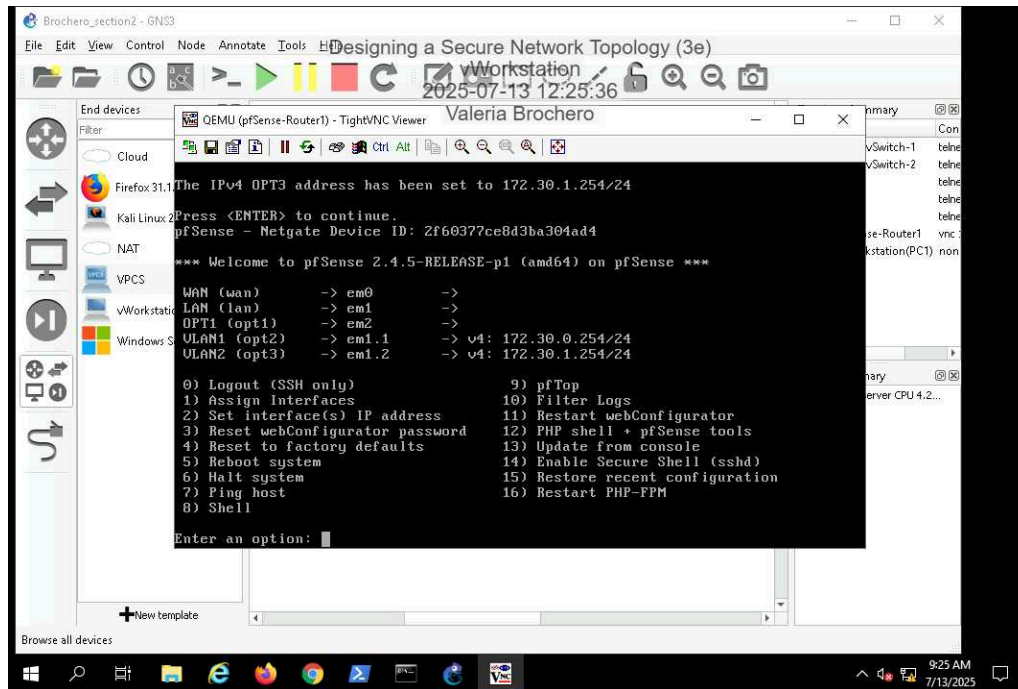
14. Make a screen capture showing the **Interface Assignments** page.



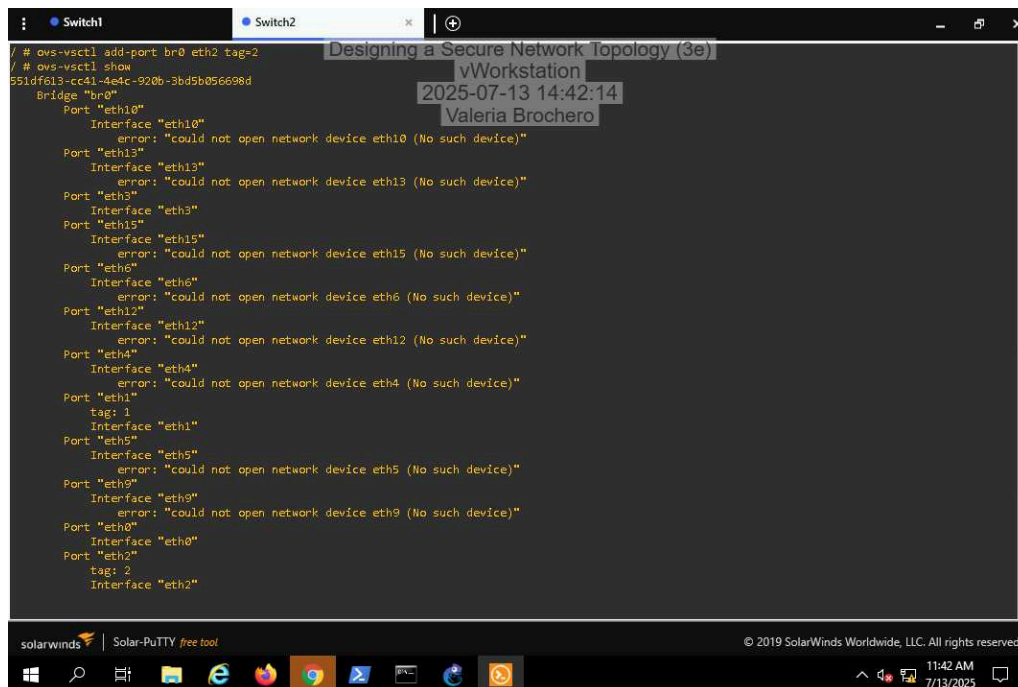
Designing a Secure Network Topology (3e)

Network Security, Firewalls, and VPNs, Third Edition - Lab 03

28. Make a screen capture showing the updated pfSense router settings with the VLAN IP address assignments.



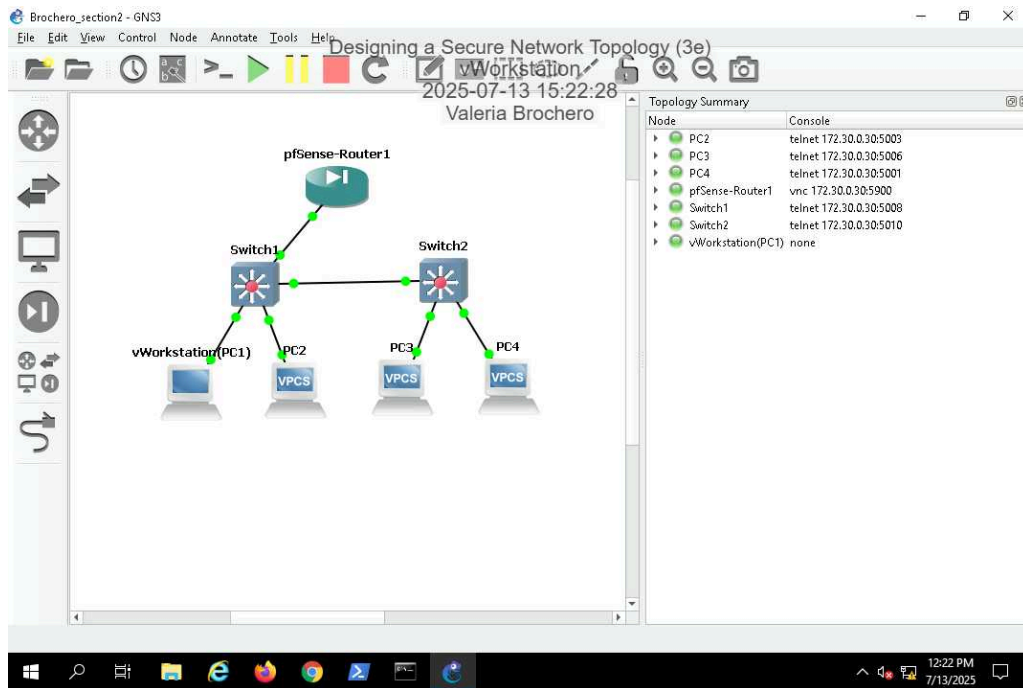
36. Make a screen capture showing the eth1 and eth2 interfaces with their assigned VLAN tags on Switch2.



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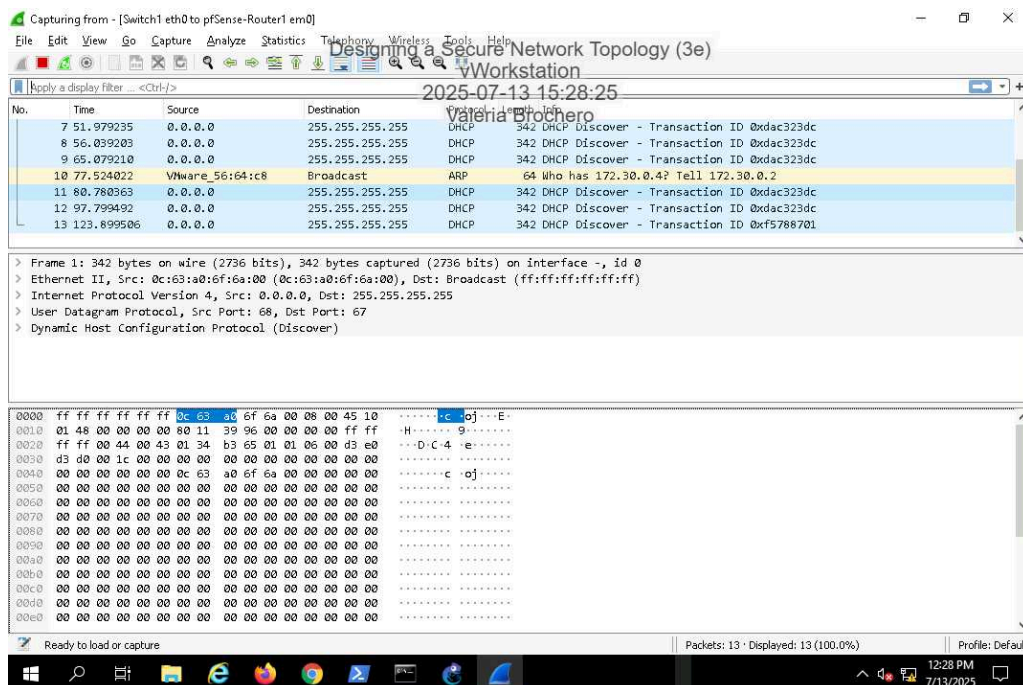
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39. Make a screen capture showing the completed topology.



Part 2: Capture Network Traffic to Validate Connectivity

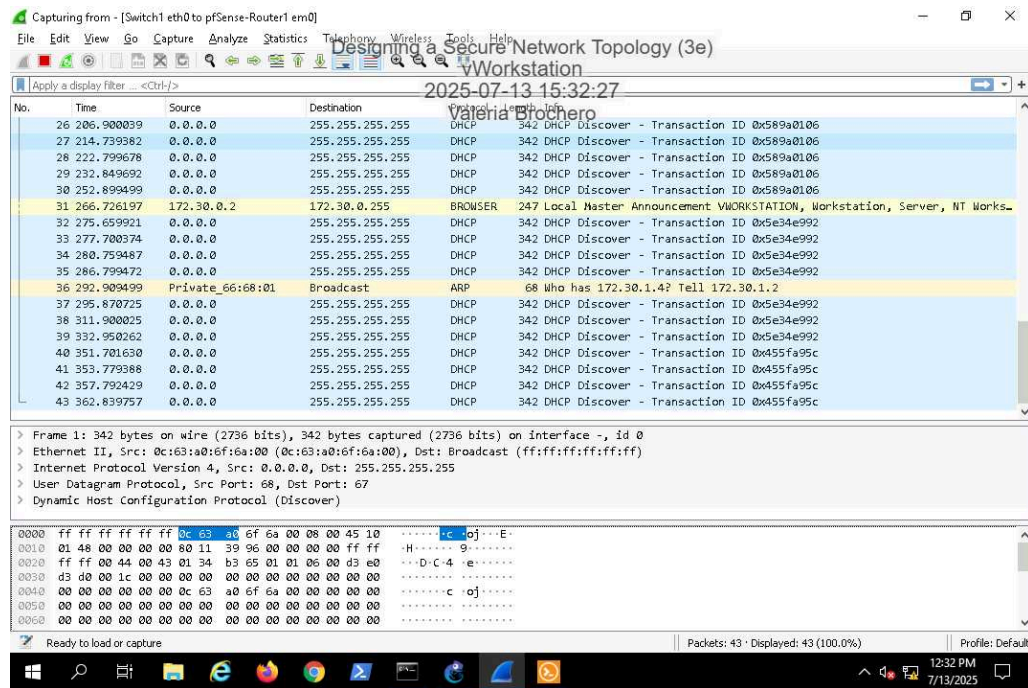
3. Make a screen capture showing the Wireshark capture for the vWorkstation to PC3 ping request.



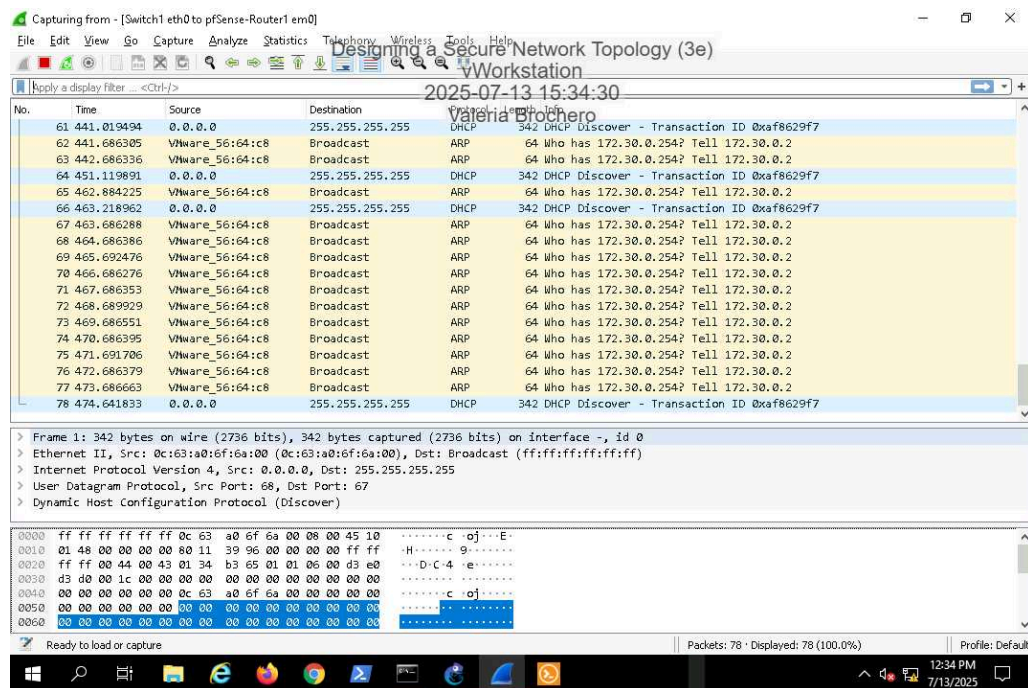
Designing a Secure Network Topology (3e)

Network Security, Firewalls, and VPNs, Third Edition - Lab 03

5. Make a screen capture showing the Wireshark capture for the PC2 to PC4 ping request.



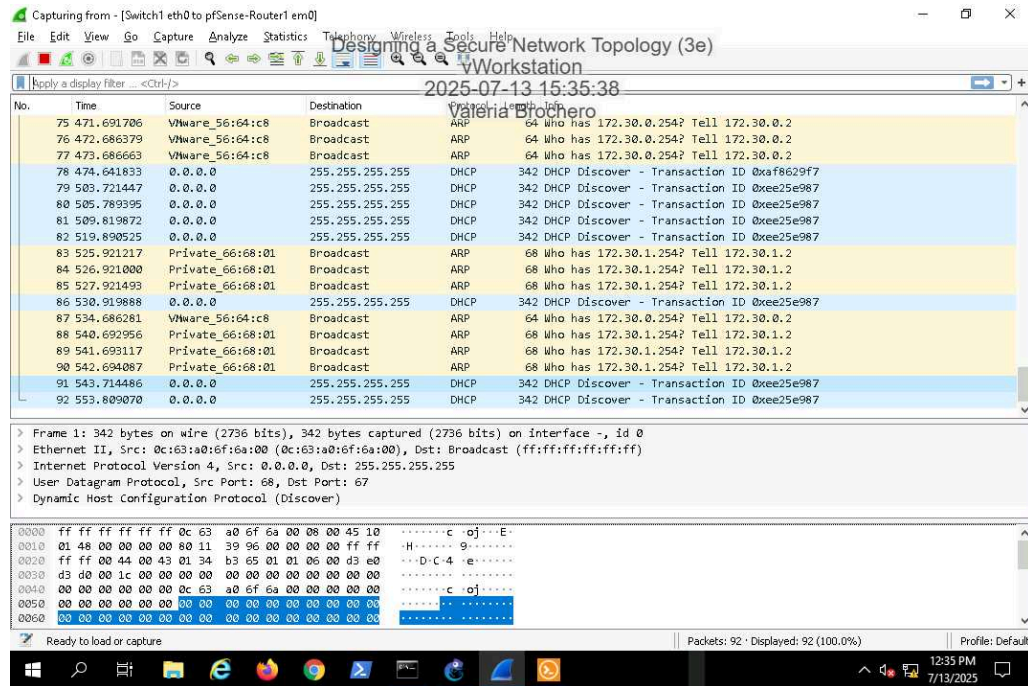
7. Make a screen capture showing the Wireshark capture for the vWorkstation to PC2 ping request.



Designing a Secure Network Topology (3e)

Network Security, Firewalls, and VPNs, Third Edition - Lab 03

9. Make a screen capture showing the Wireshark capture for the PC2 to PC3 ping request.



Section 3: Challenge and Analysis

Part 1: Enhance the Network Topology with a DMZ

Make a screen capture showing the **interface configurations** in the **pfSense console**.

Incomplete

Make a screen capture showing the **firewall rule on the WAN interface** in the **pfSense webConfigurator**.

Incomplete

Part 2: Validate DMZ Connectivity

Make a screen capture showing the **results of both pings**.

Incomplete