

Designing a Secure Network Topology (3e)

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

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Time on Task:

6 hours, 32 minutes

Progress:

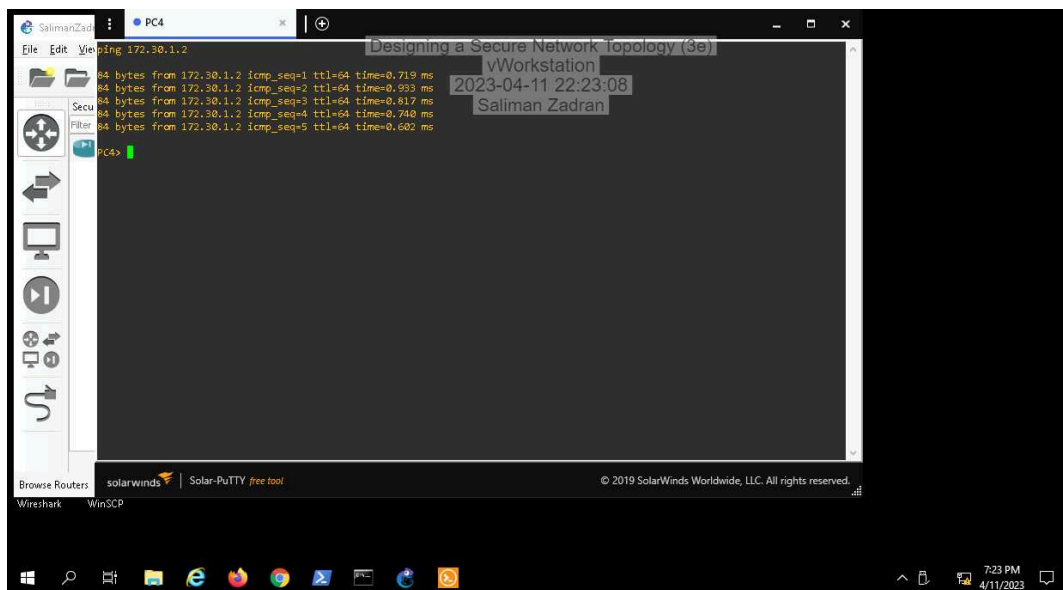
100%

Report Generated: Thursday, April 13, 2023 at 12:19 AM

Section 1: Hands-On Demonstration

Part 1: Design a Simple Network Topology

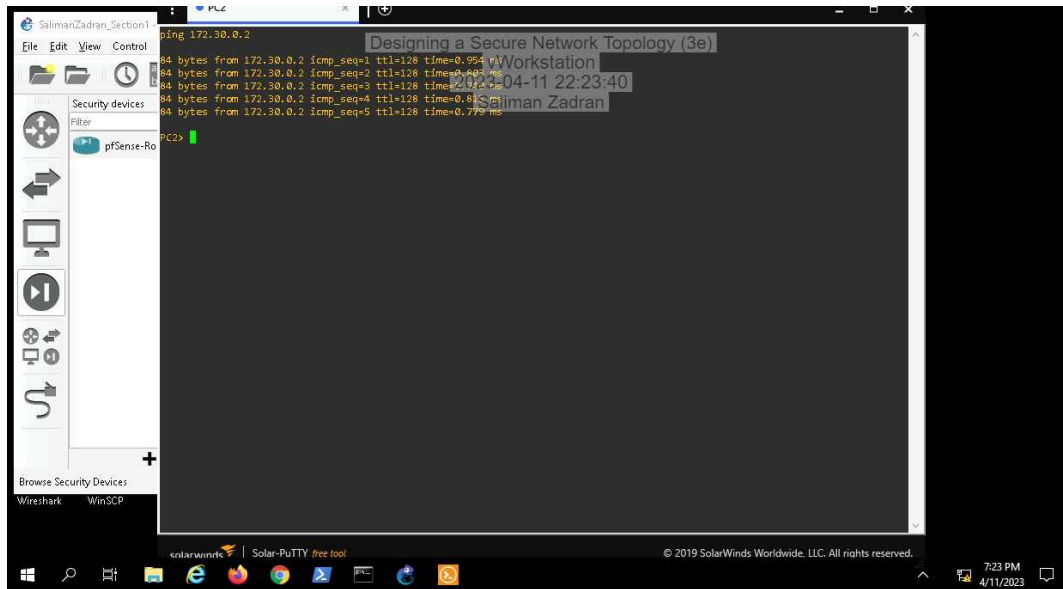
34. Make a screen capture showing the results of the ping attempt from PC4 to PC3.



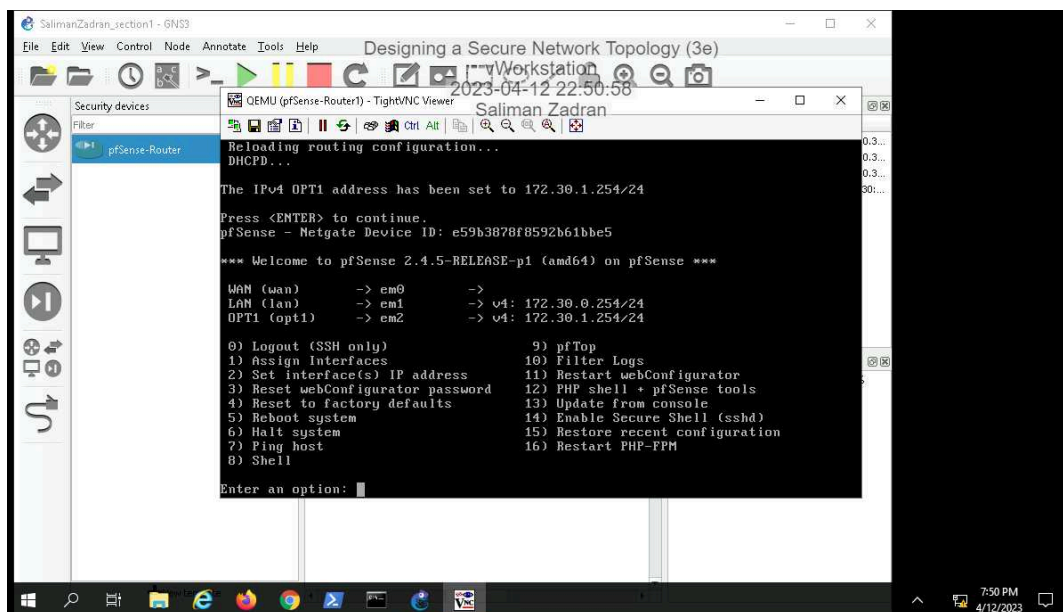
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37. Make a screen capture showing the results of the ping attempt from PC2 to the vWorkstation (172.30.0.2).



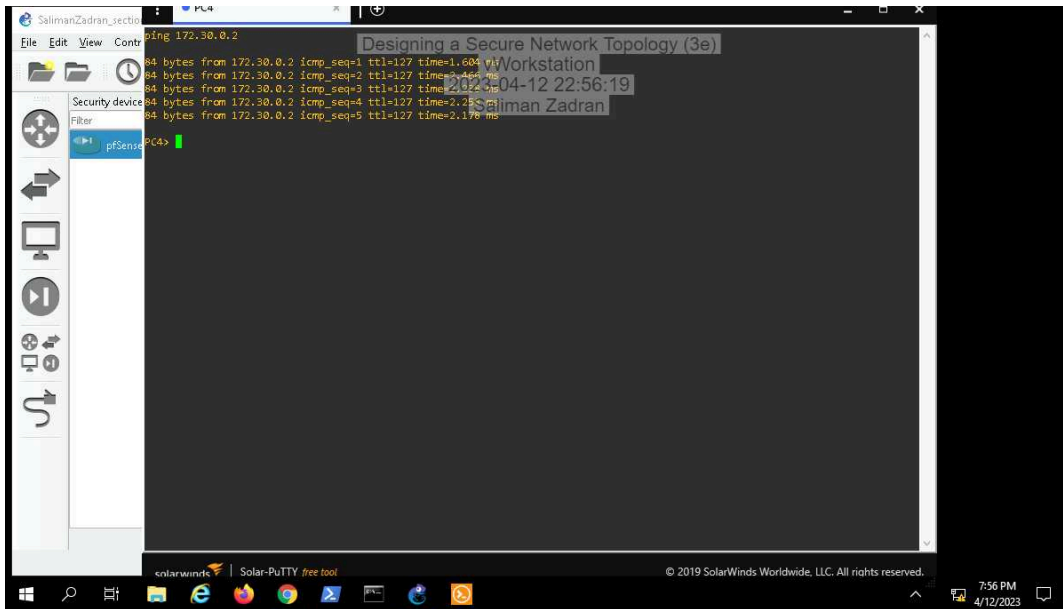
49. Make a screen capture showing the IP address assignments in the pfSense console.



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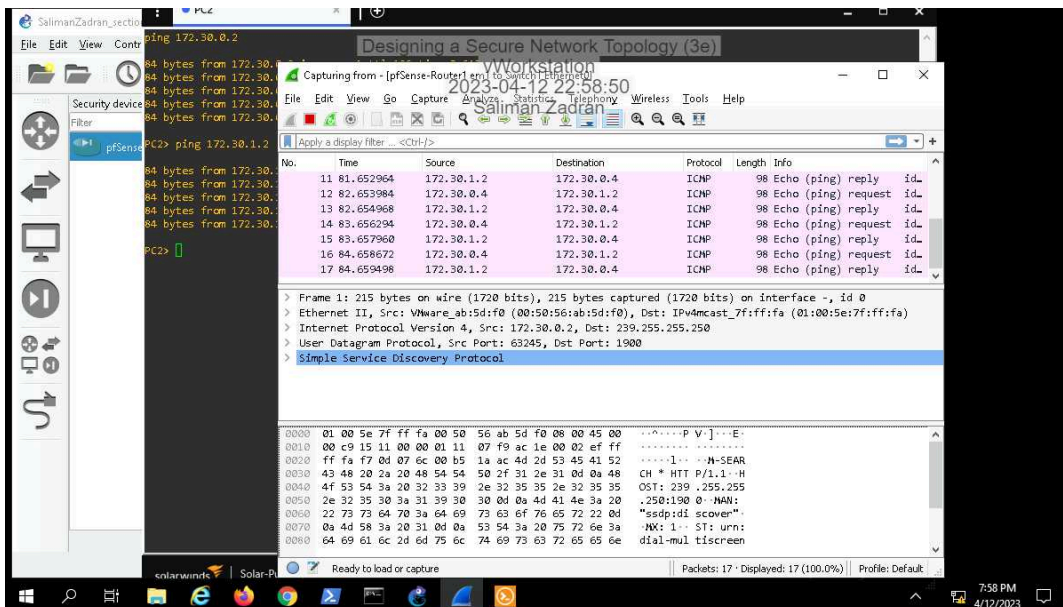
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72. Make a screen capture showing the successful ping from PC4 to the vWorkstation.



Part 2: Capture Network Traffic to Validate Connectivity

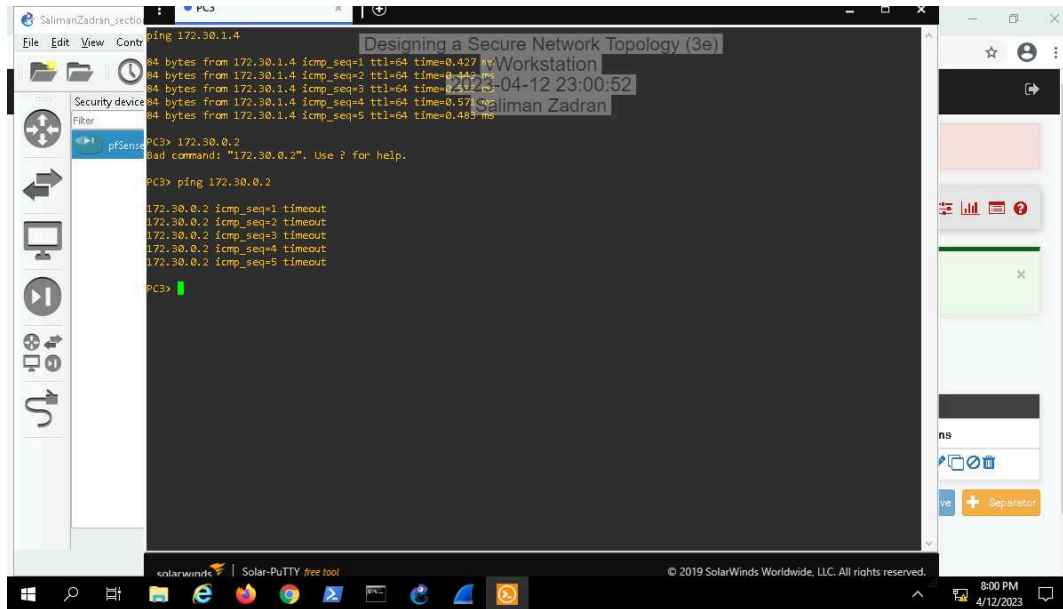
7. Make a screen capture showing the Wireshark capture for the PC2 to PC3 ping request.



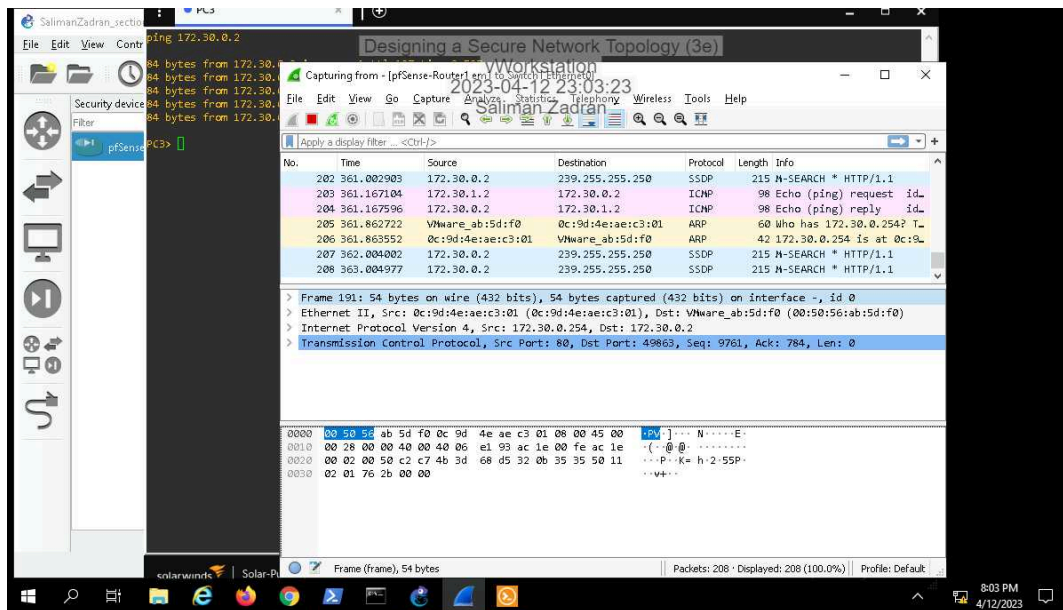
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17. Make a screen capture showing the timed out ping request.



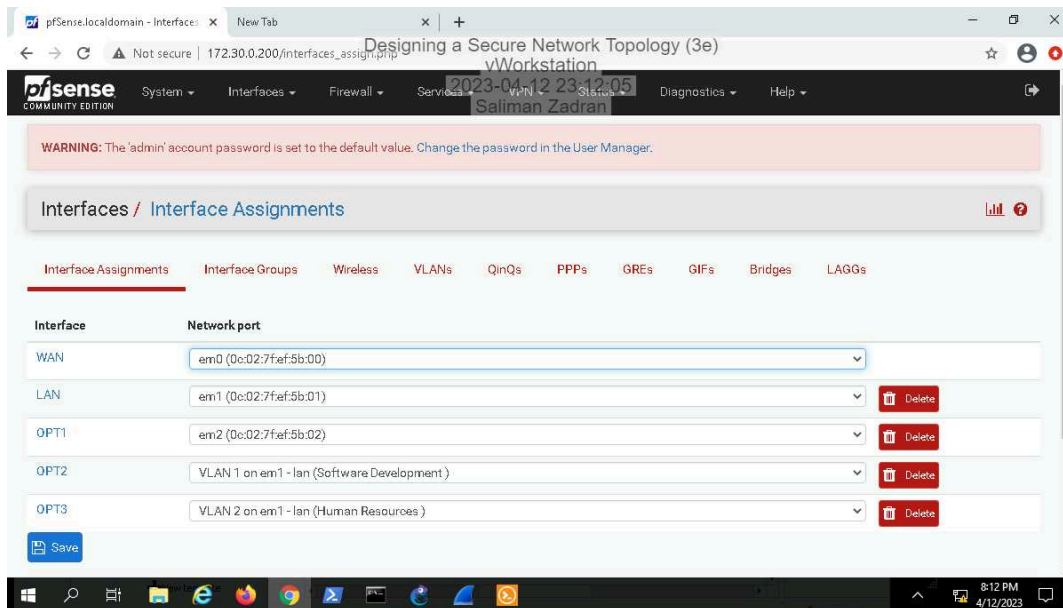
20. Make a screen capture showing the Wireshark capture for the PC3 to vWorkstation ping request.



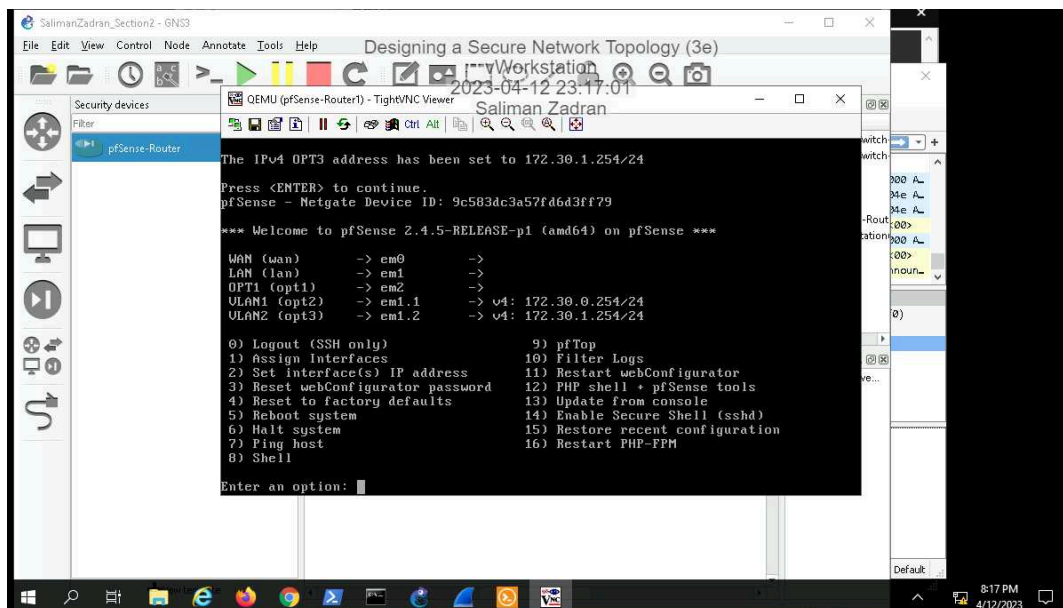
Section 2: Applied Learning

Part 1: Design a More Complex Network Topology

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



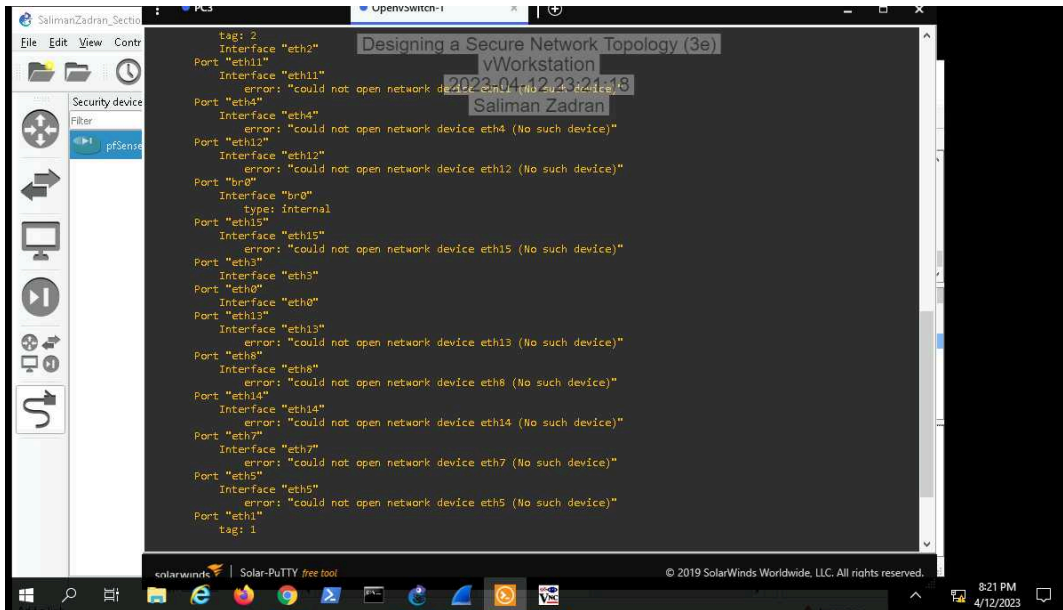
28. Make a screen capture showing the updated pfSense router settings with the VLAN IP address assignments.



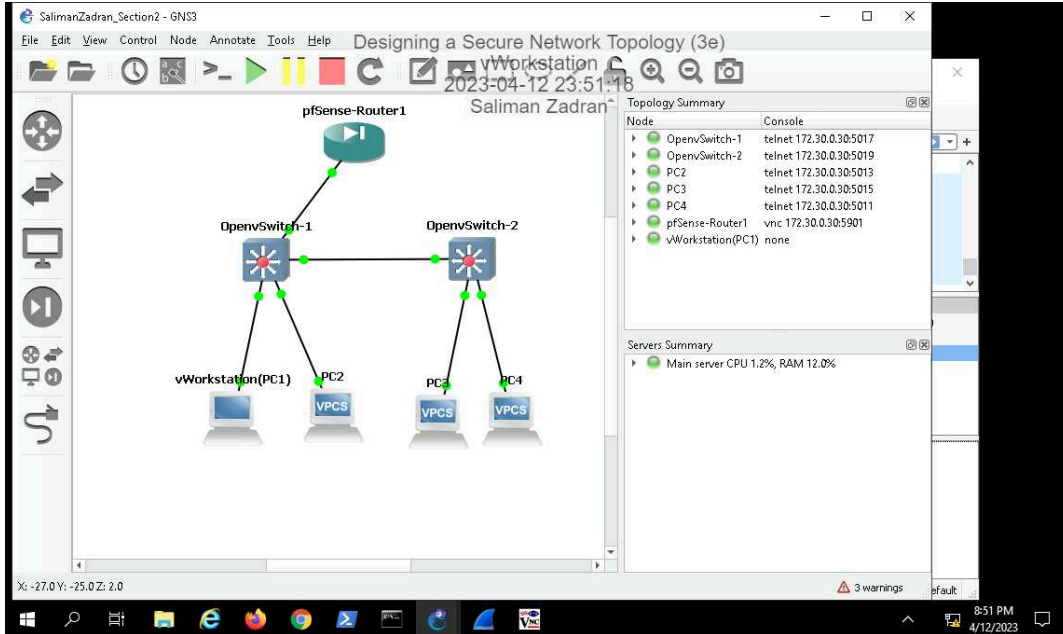
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36. Make a screen capture showing the **eth1** and **eth2** interfaces with their assigned VLAN tags on **Switch2**.



39. Make a screen capture showing the **completed topology**.

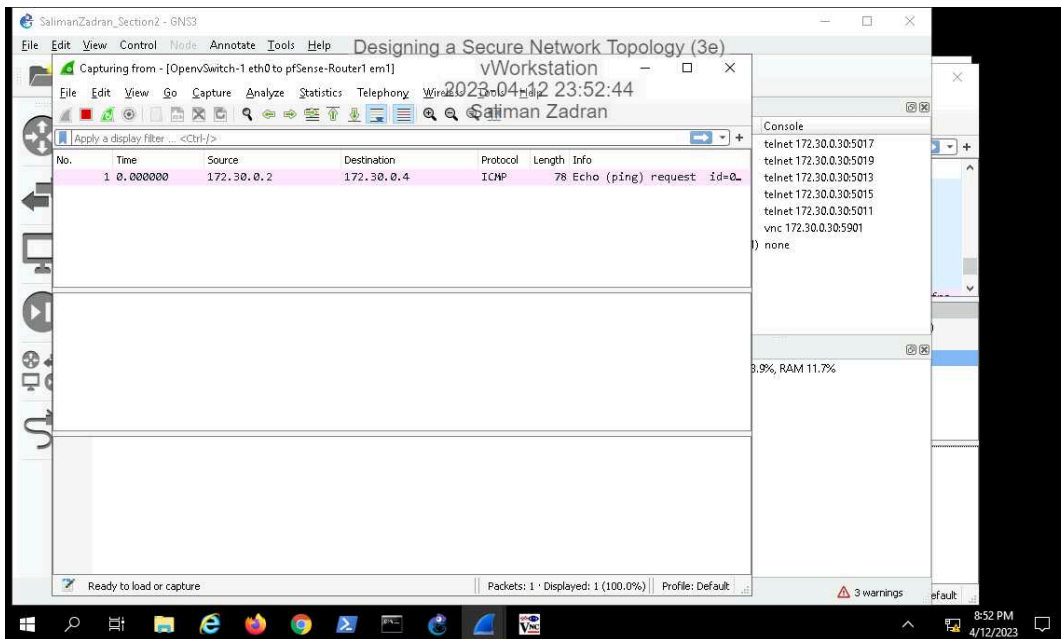


Part 2: Capture Network Traffic to Validate Connectivity

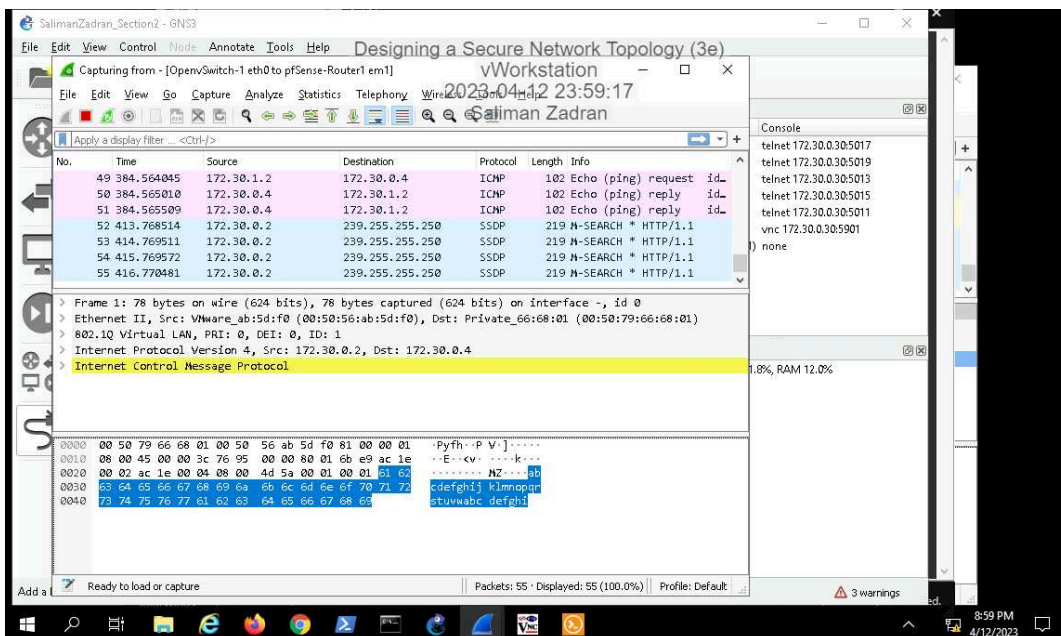
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3. Make a screen capture showing the Wireshark capture for the vWorkstation to PC3 ping request.



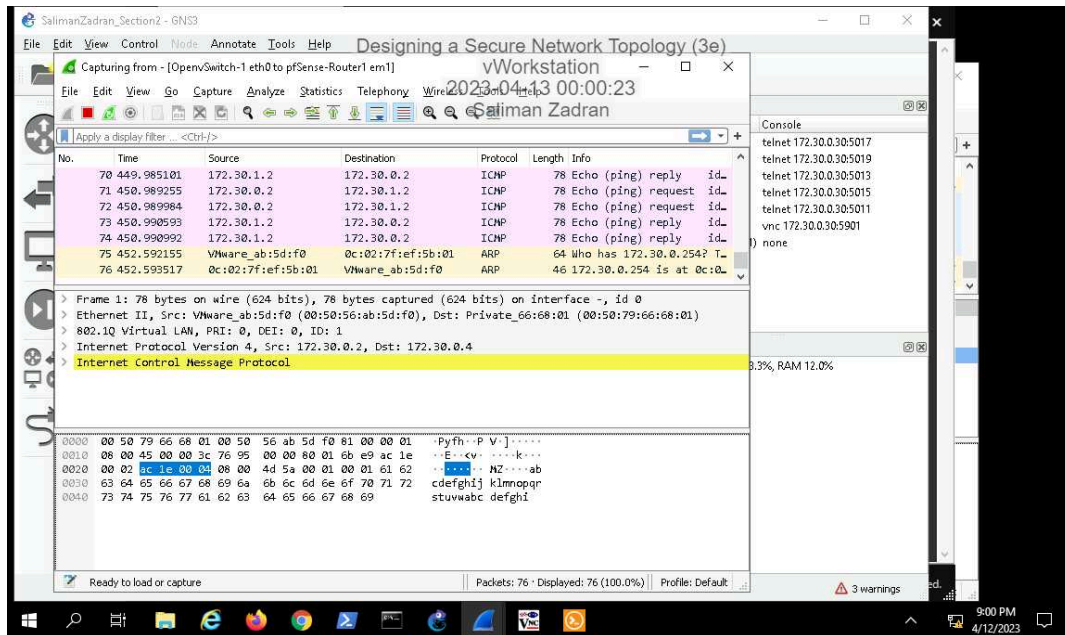
5. Make a screen capture showing the Wireshark capture for the PC2 to PC4 ping request.



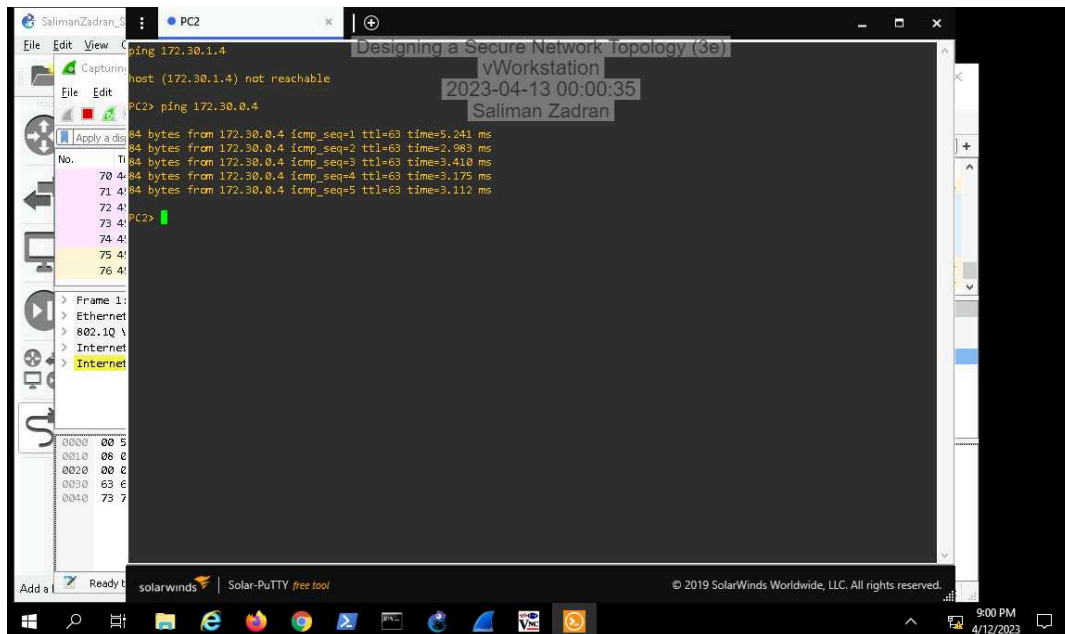
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7. Make a screen capture showing the Wireshark capture for the vWorkstation to PC2 ping request.



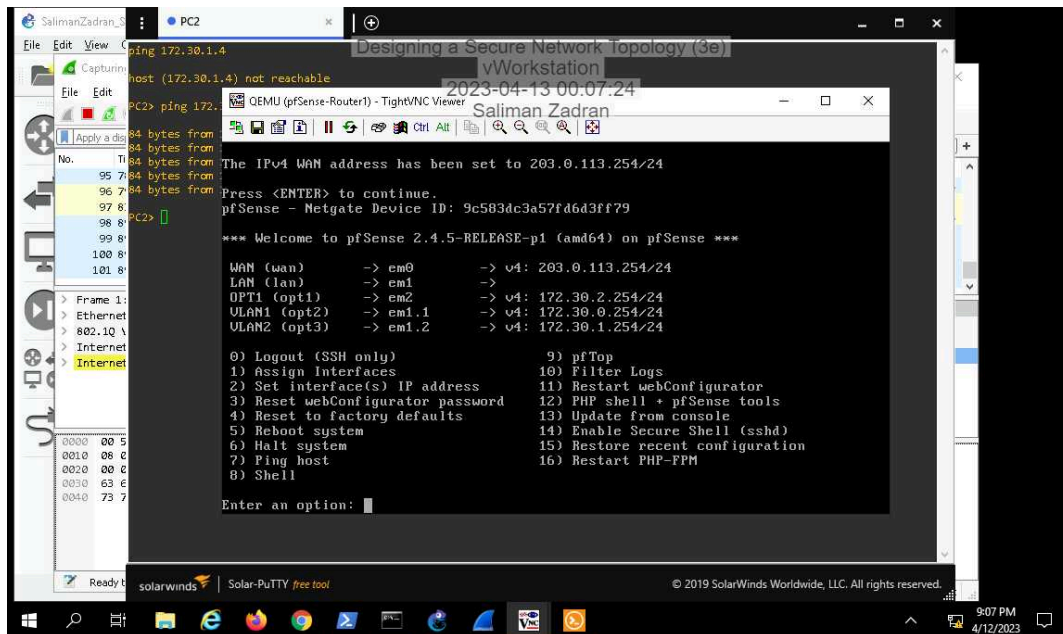
9. Make a screen capture showing the Wireshark capture for the PC2 to PC3 ping request.



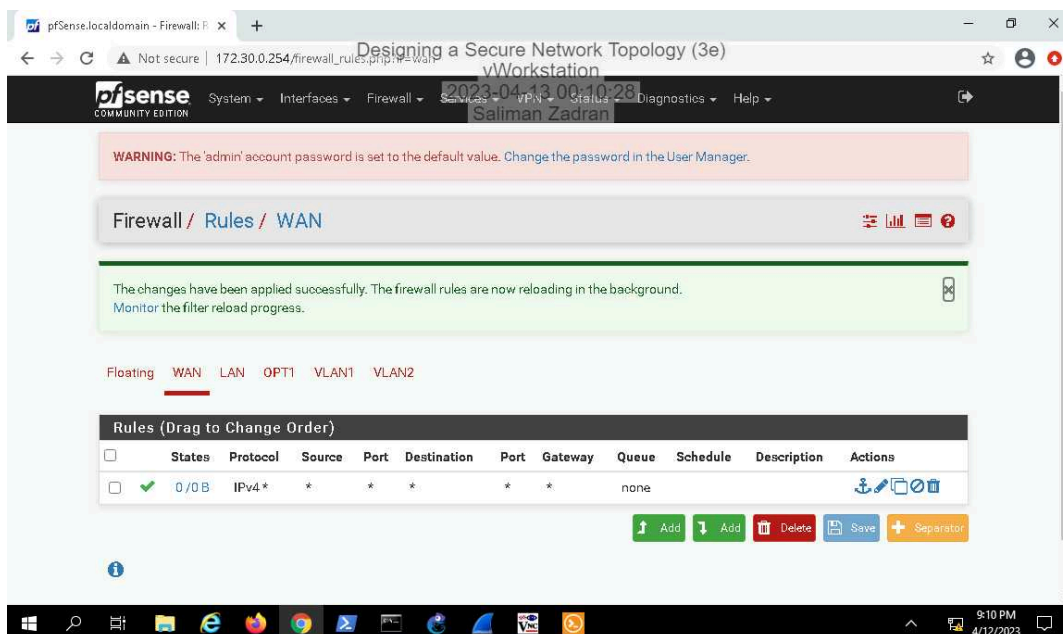
Section 3: Challenge and Analysis

Part 1: Enhance the Network Topology with a DMZ

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



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



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Part 2: Validate DMZ Connectivity

Make a screen capture showing the results of both pings.

