

Designing a Secure Network Topology (3e)

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

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Time on Task:

5 hours, 29 minutes

Progress:

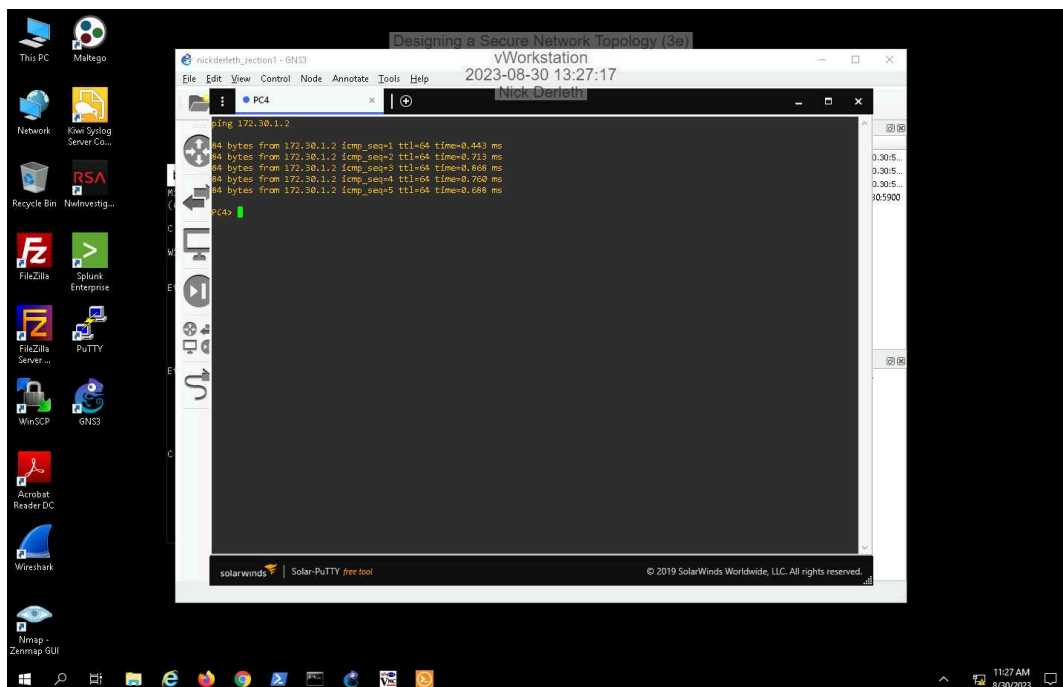
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Report Generated: Friday, September 22, 2023 at 8:12 AM

Section 1: Hands-On Demonstration

Part 1: Design a Simple Network Topology

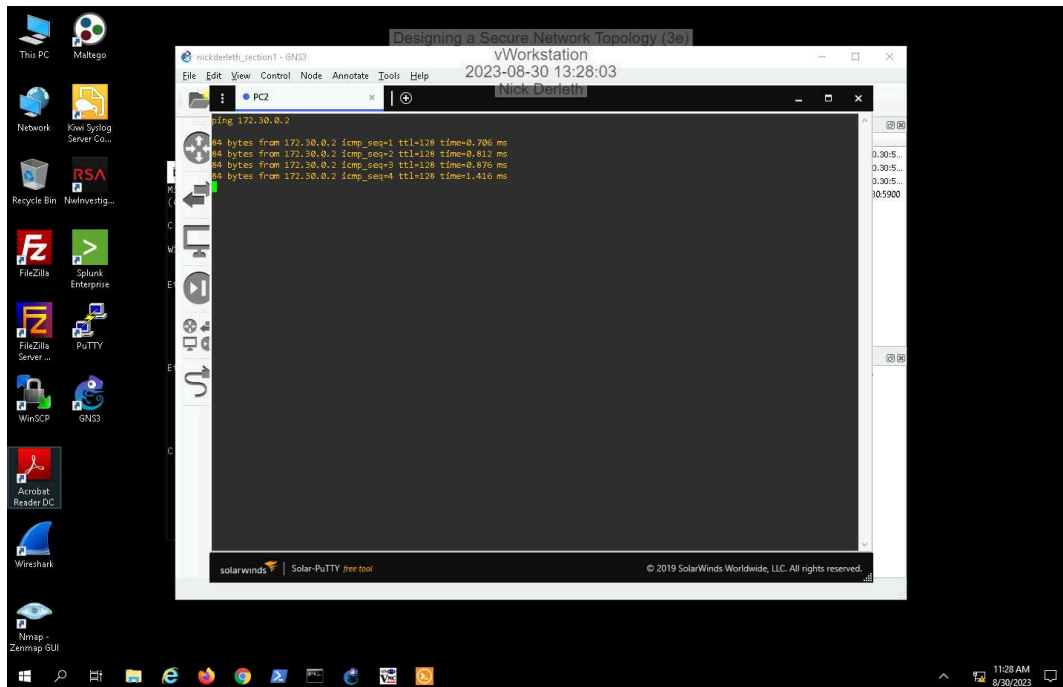
34. Make a screen capture showing the results of the ping attempt from PC4 to PC3.



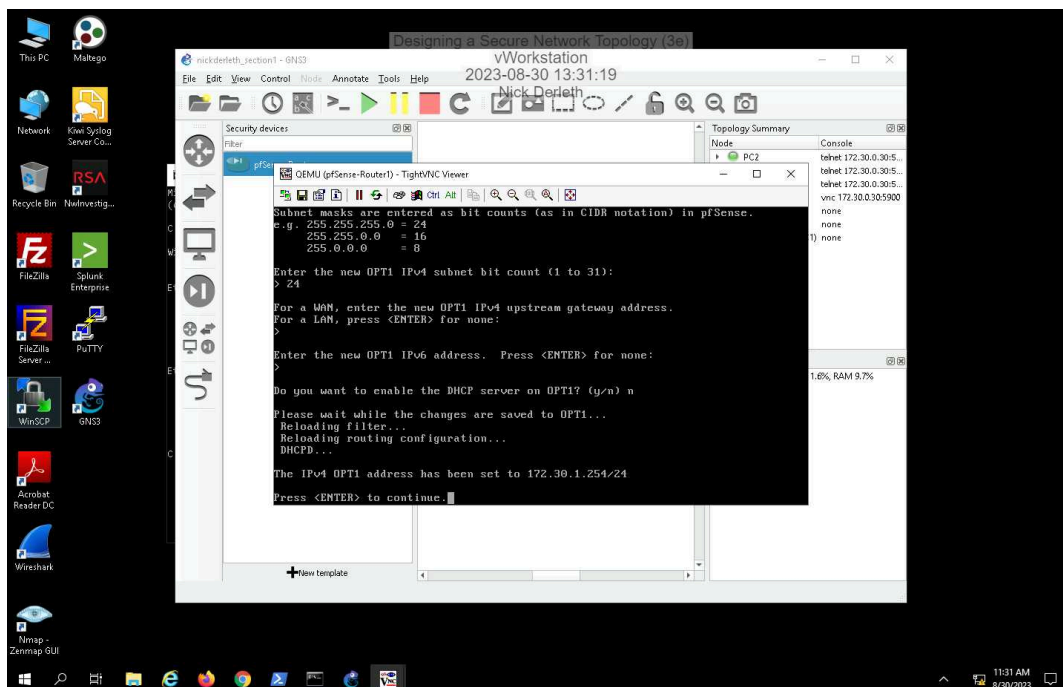
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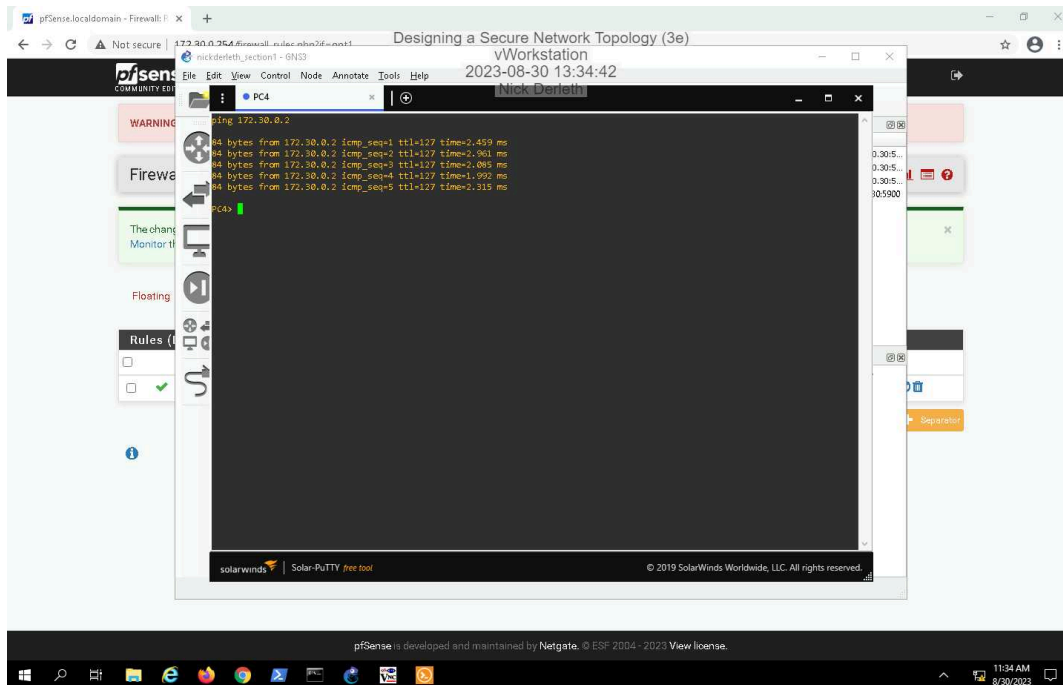
37. Make a screen capture showing the results of the ping attempt from PC2 to the vWorkstation (172.30.0.2).



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

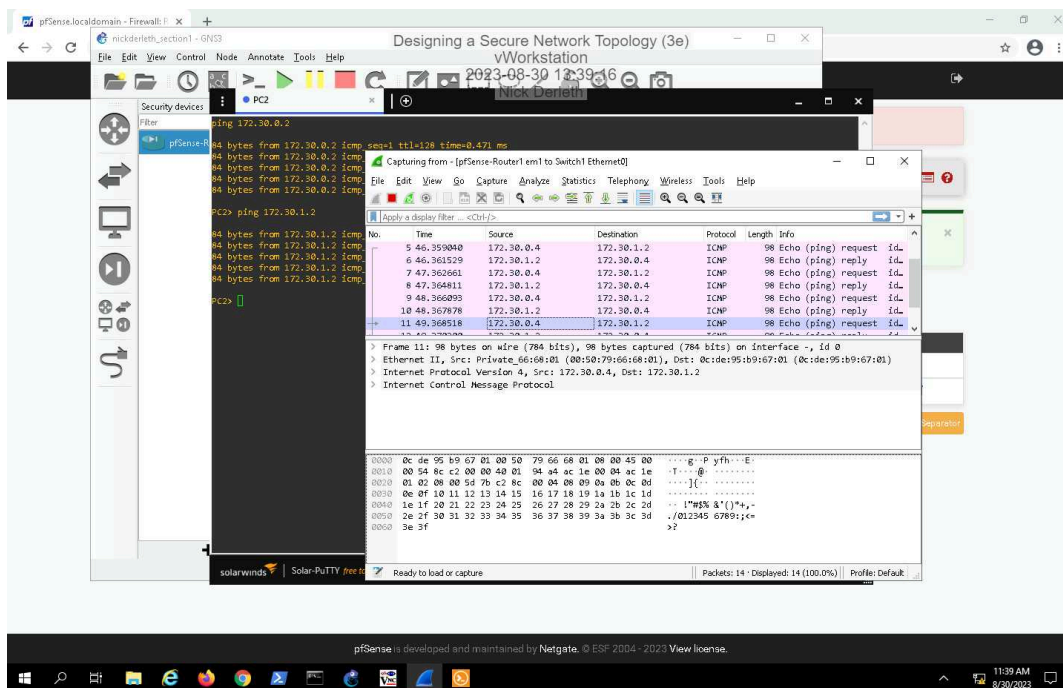


72. Make a screen capture showing the successful ping from PC4 to the vWorkstation.

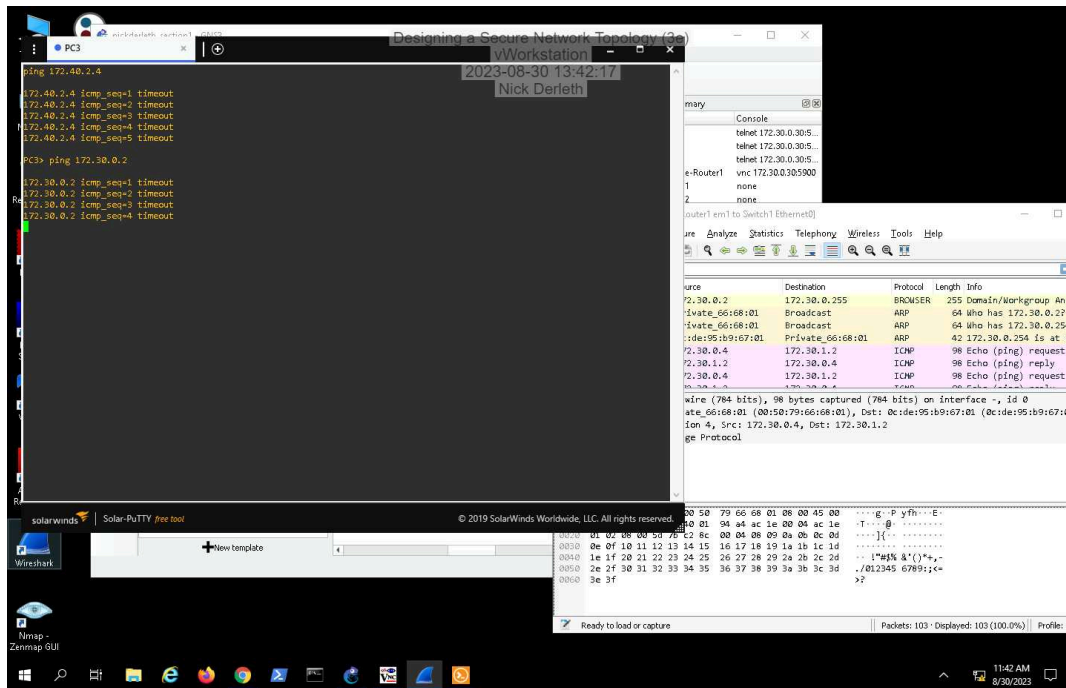


Part 2: Capture Network Traffic to Validate Connectivity

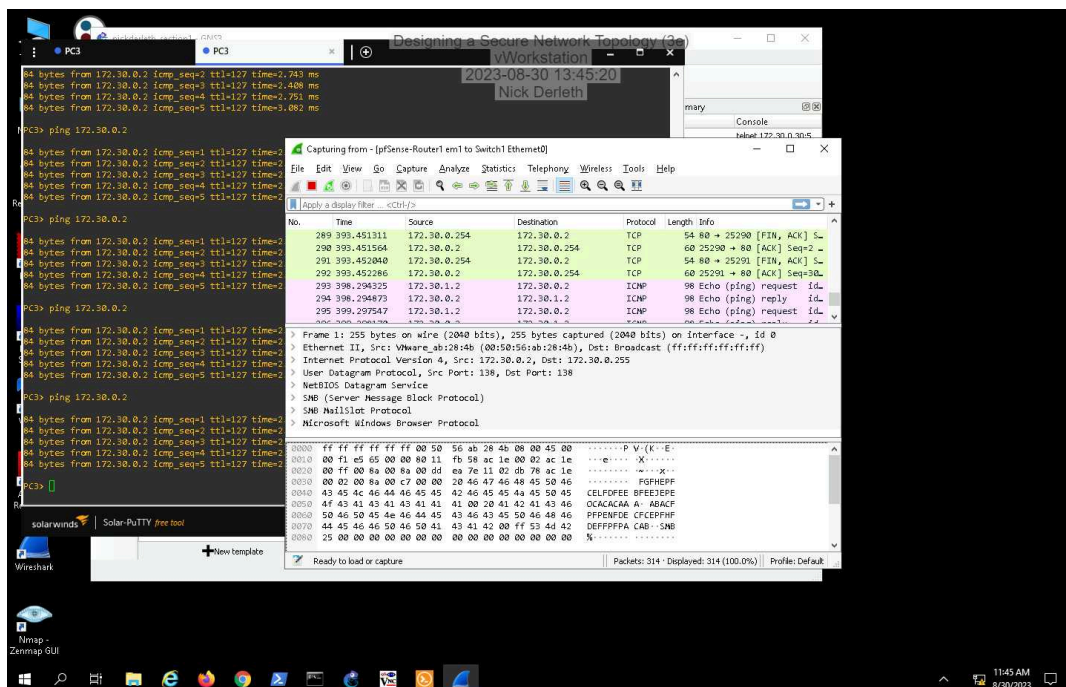
7. Make a screen capture showing the Wireshark capture for the PC2 to PC3 ping request.



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



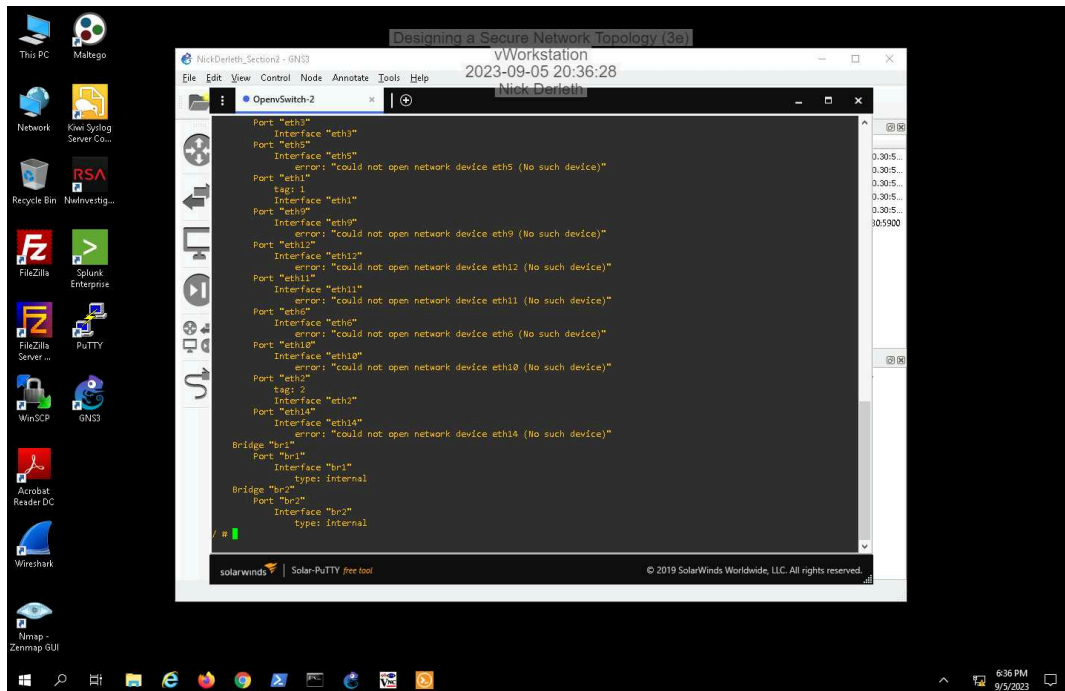
20. Make a screen capture showing the Wireshark capture for the PC3 to vWorkstation ping request.



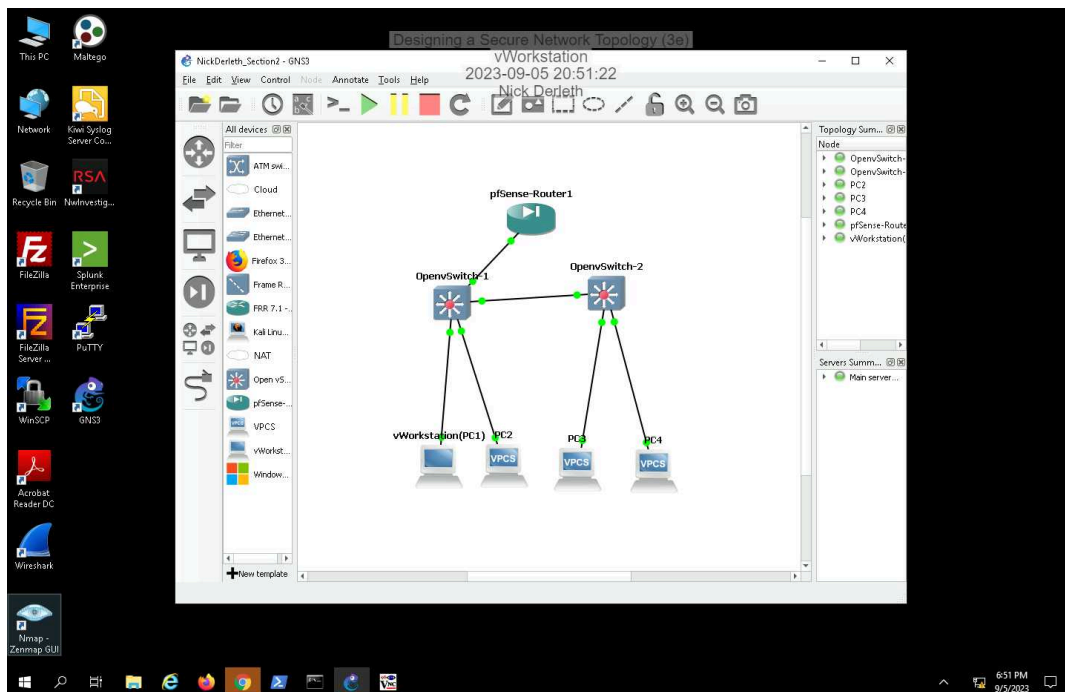
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36. Make a screen capture showing the **eth1** and **eth2** interfaces with their assigned VLAN tags on Switch2.



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

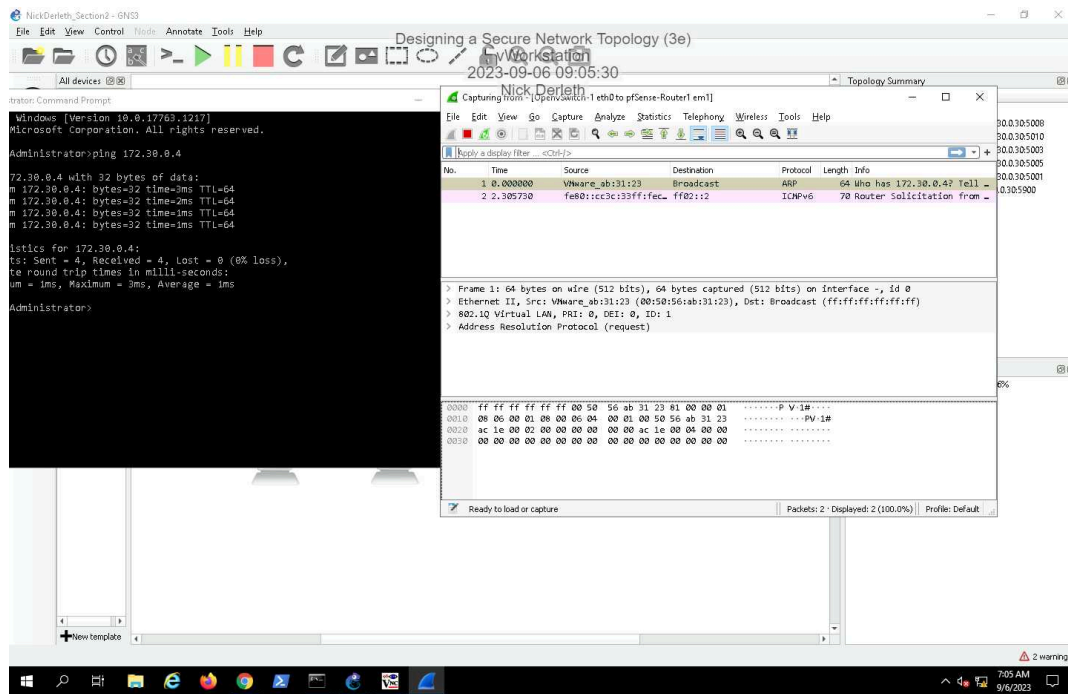


Part 2: Capture Network Traffic to Validate Connectivity

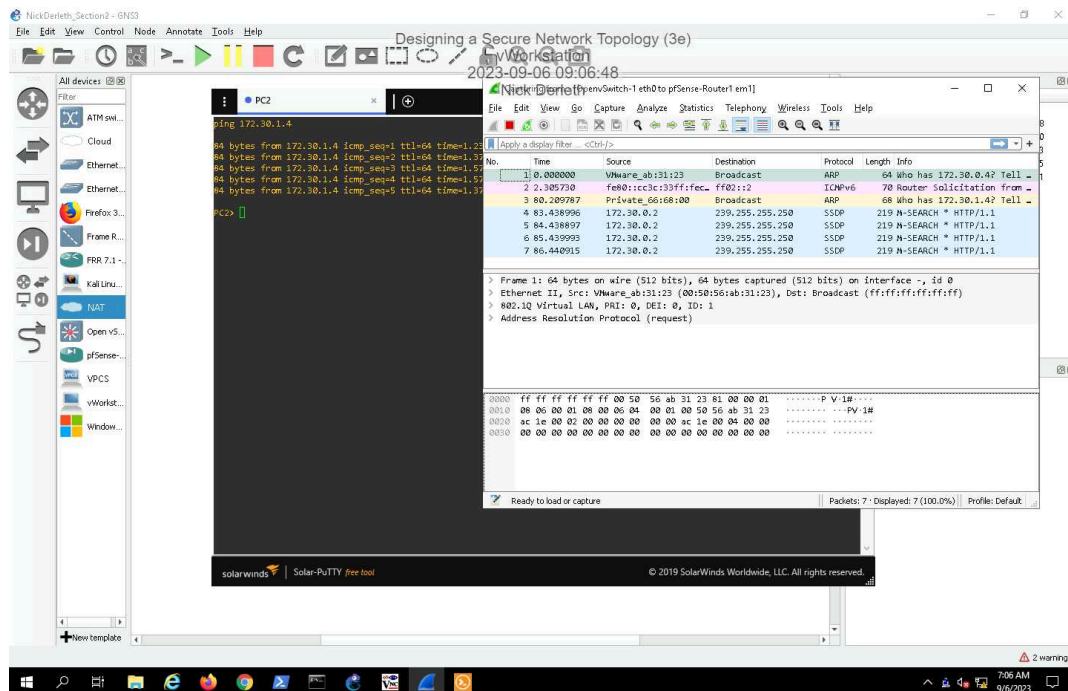
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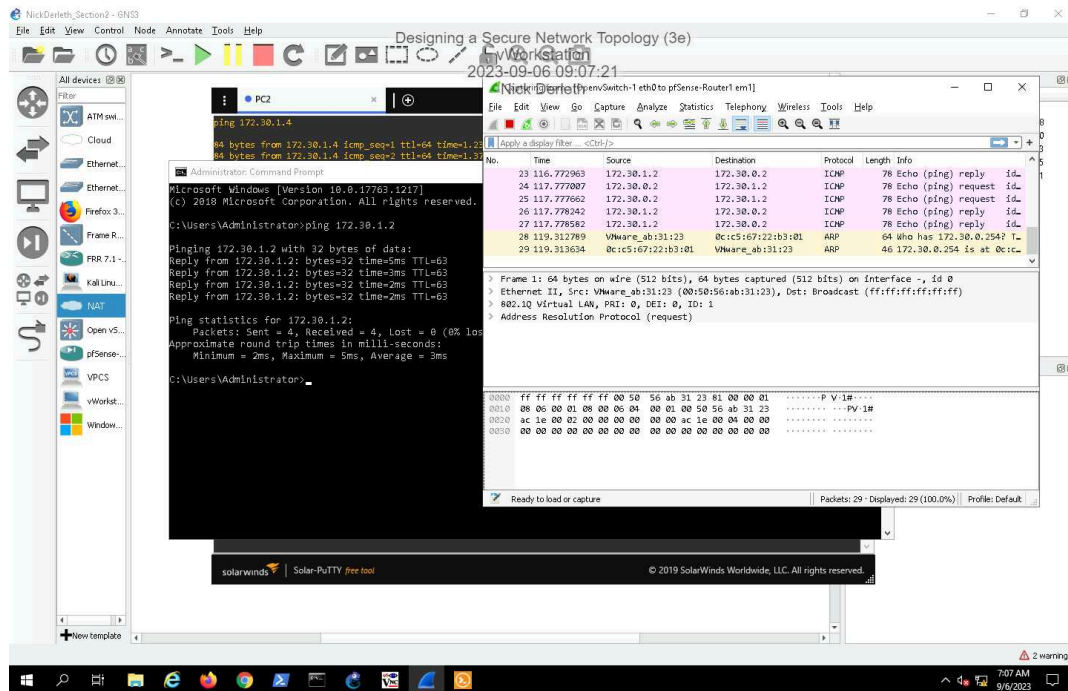
3. Make a screen capture showing the Wireshark capture for the vWorkstation to PC3 ping request.



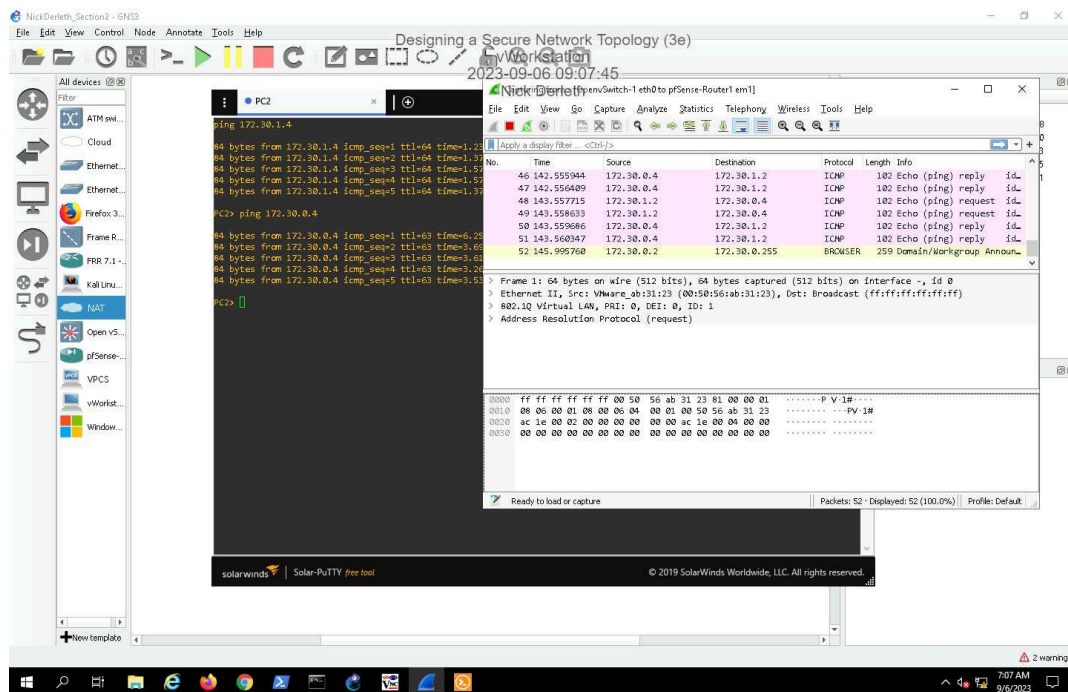
5. Make a screen capture showing the Wireshark capture for the PC2 to PC4 ping request.



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



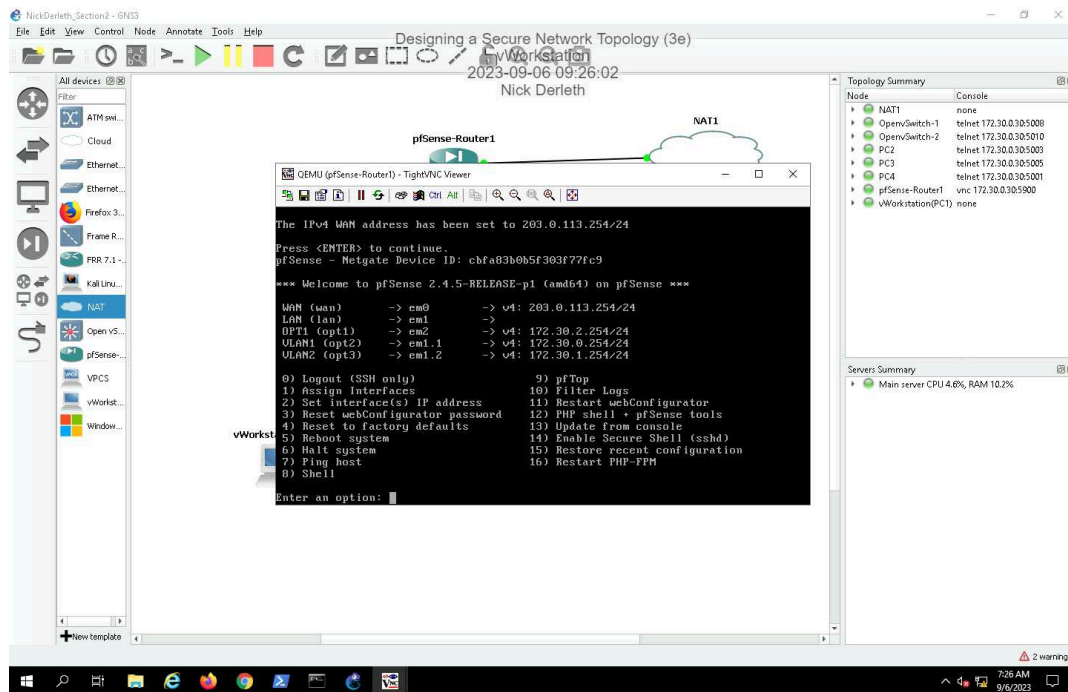
9. Make a screen capture showing the Wireshark capture for the PC2 to PC3 ping request.



Section 3: Challenge and Analysis

Part 1: Enhance the Network Topology with a DMZ

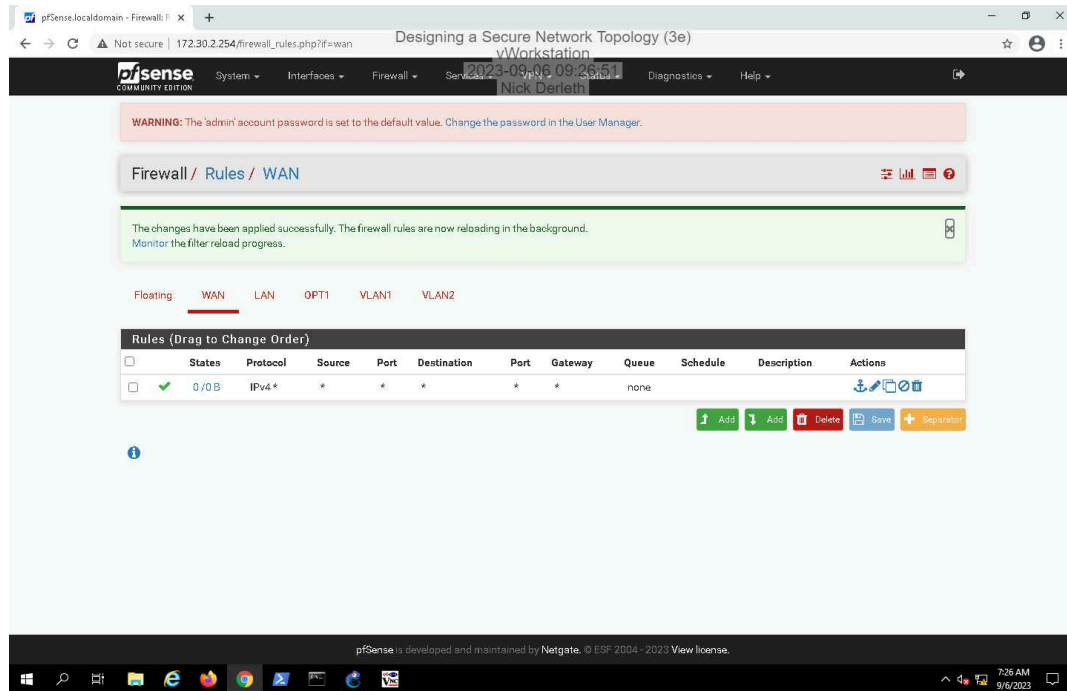
Make a screen capture showing the interface configurations in the pfSense console.



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



Part 2: Validate DMZ Connectivity

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Make a screen capture showing the results of both pings.

