Student:	Email:
Brayden Mitchell	brayden.m.mitchell@gmail.com

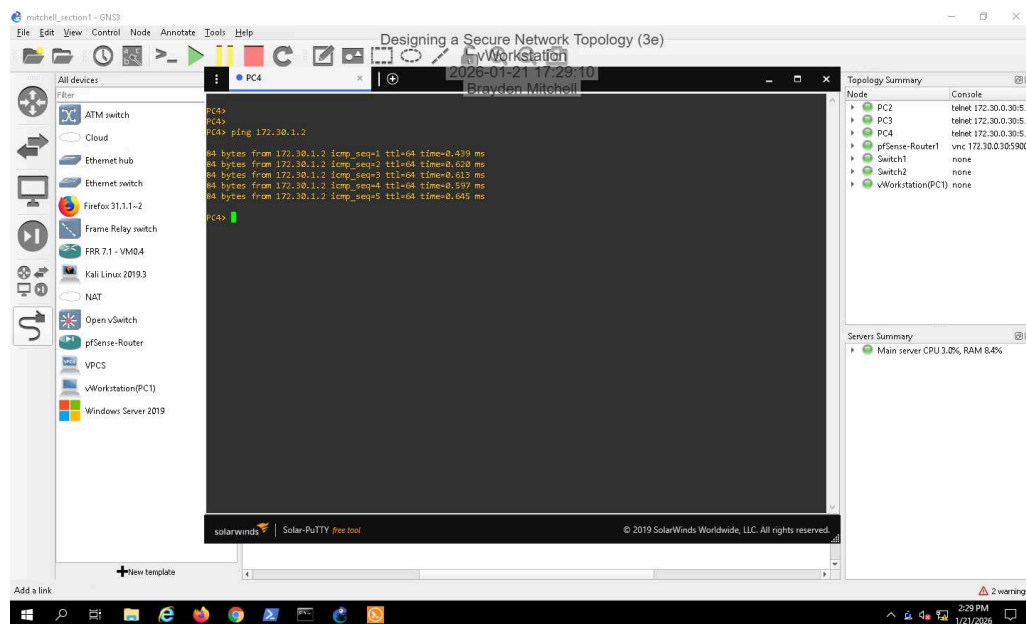| Time on Task:	Progress:
2 hours, 24 minutes	100%

Report Generated: Wednesday, January 21, 2026 at 8:09 PM

Section 1: Hands-On Demonstration
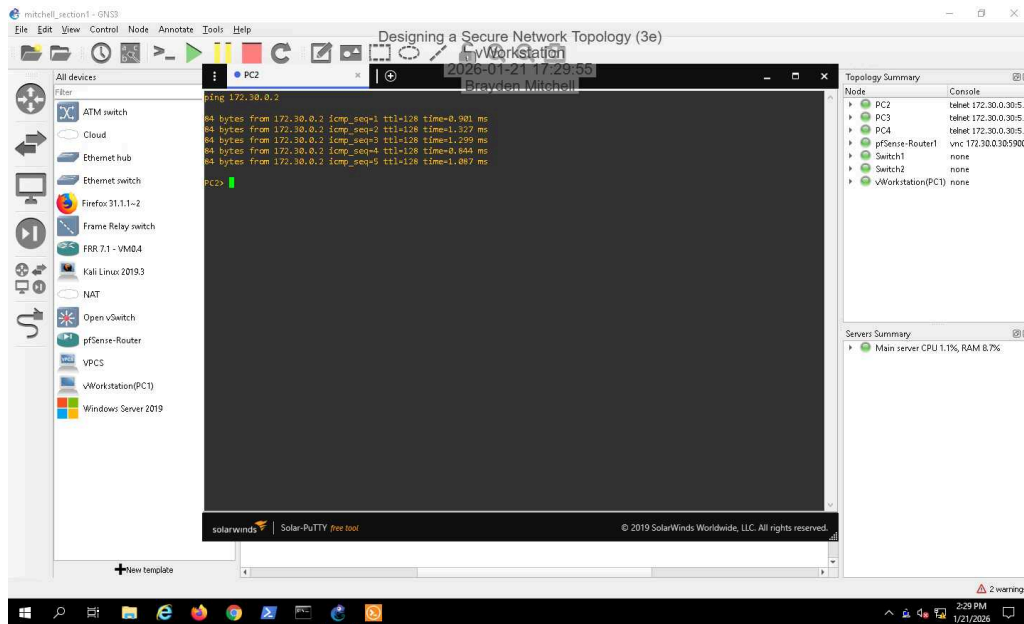
Part 1: Design a Simple Network Topology

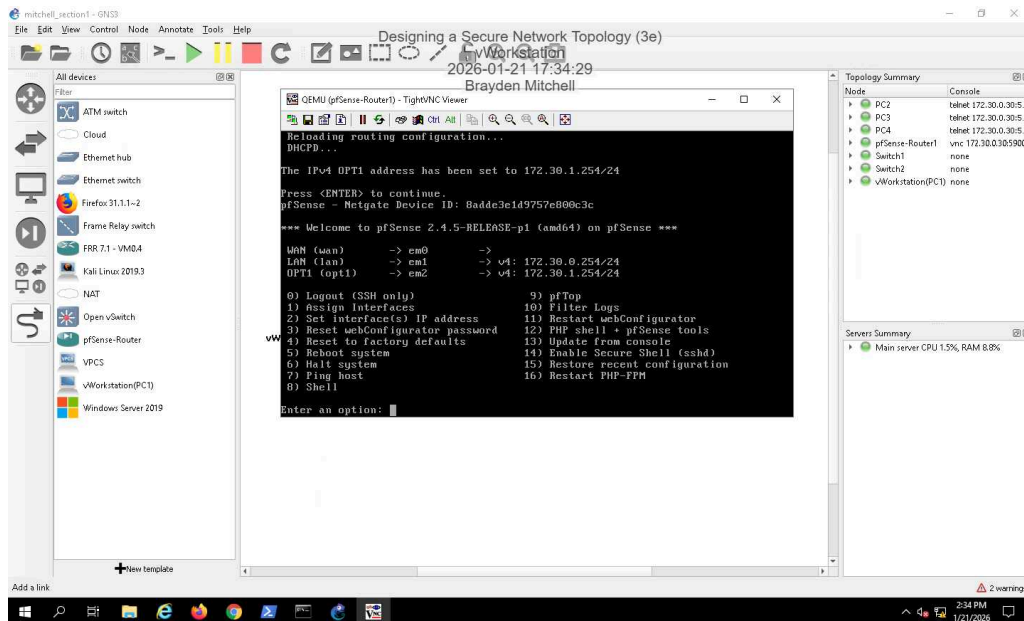34. **Make a screen capture** showing the **results of the ping attempt from PC4 to PC3**.

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**.

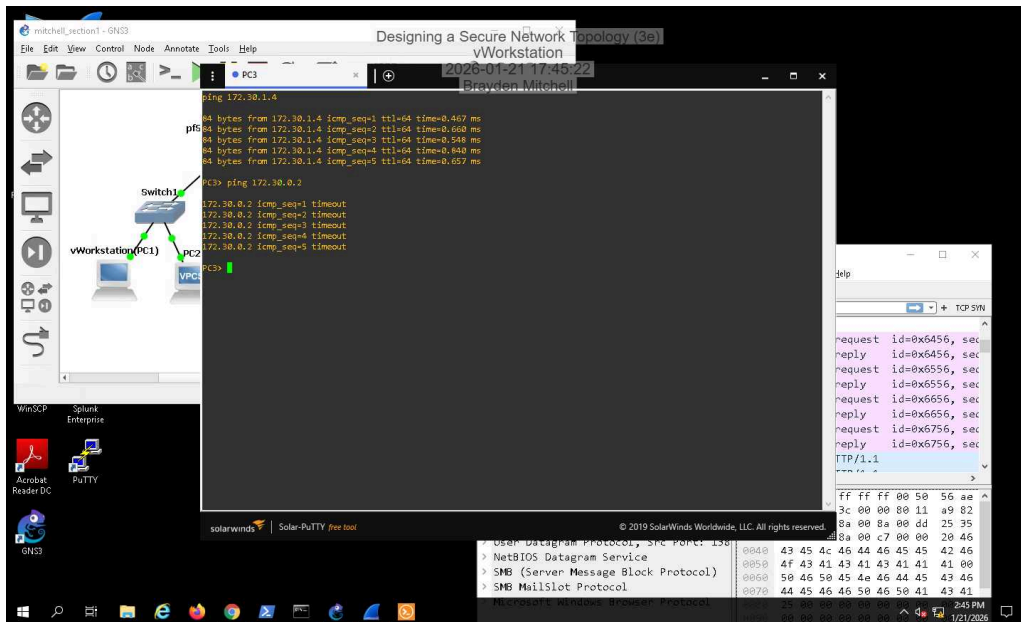## Part 2: Capture Network Traffic to Validate Connectivity

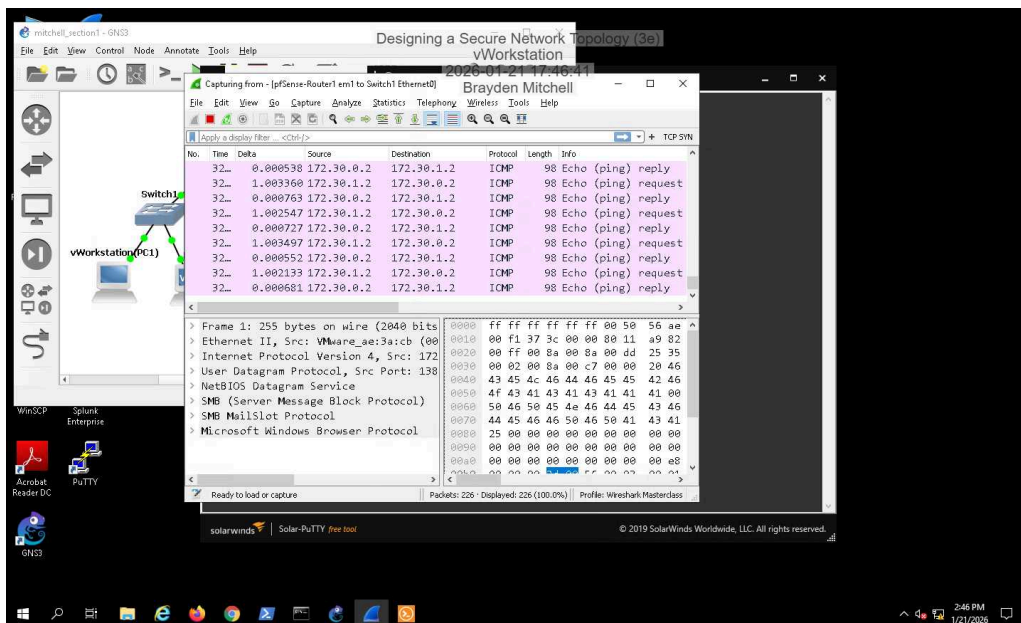7. **Make a screen capture** showing the **Wireshark capture for the PC2 to PC3 ping request**.

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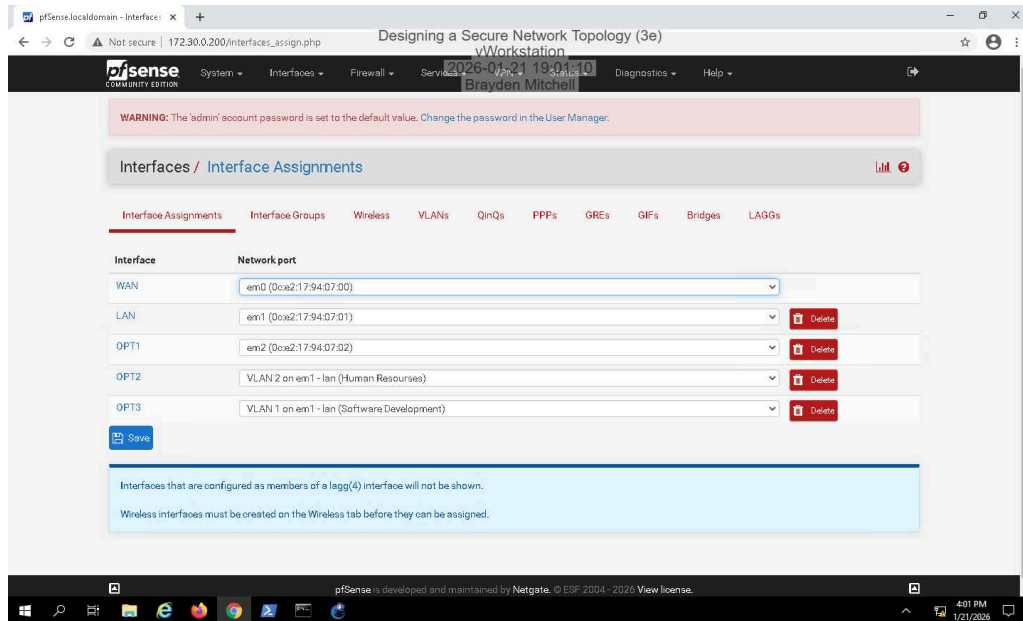

20. **Make a screen capture** showing the **Wireshark capture for the PC3 to vWorkstation ping request**.
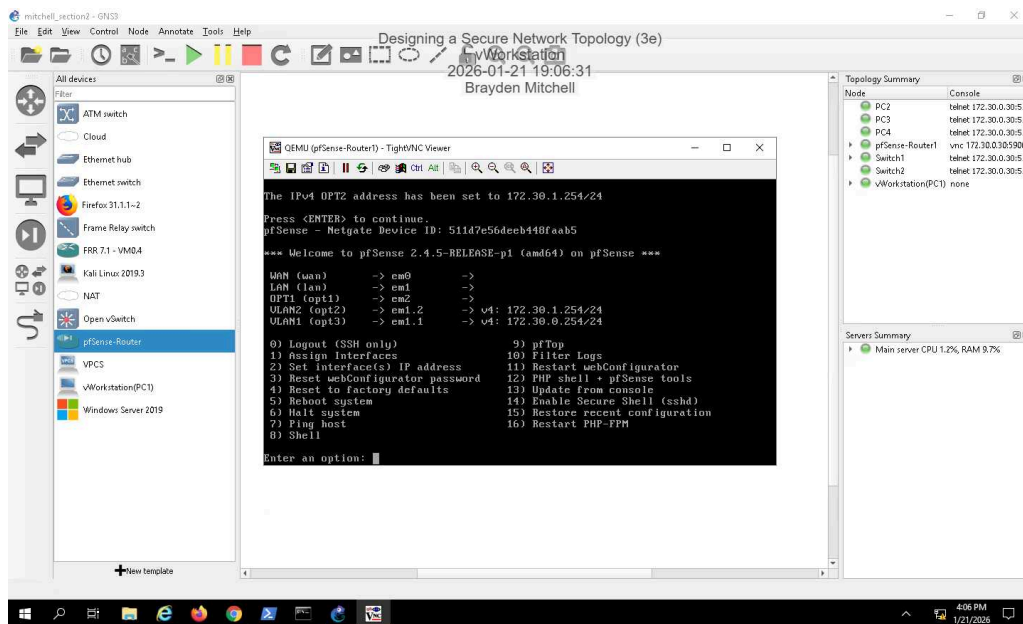
Section 2: Applied Learning

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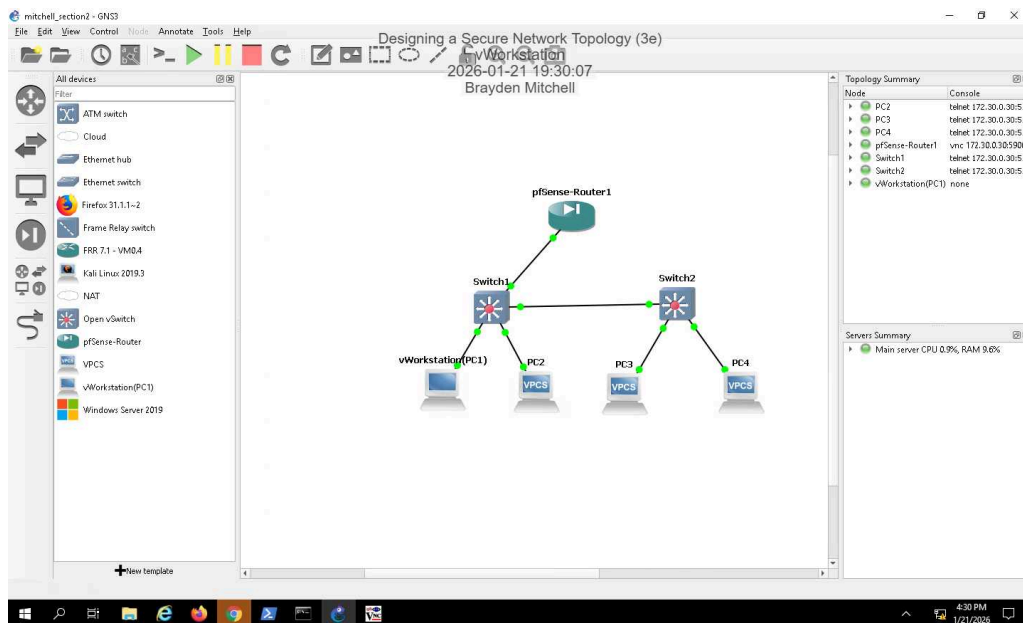
36. **Make a screen capture** showing the **eth1 and eth2 interfaces with their assigned VLAN tags on Switch2**.
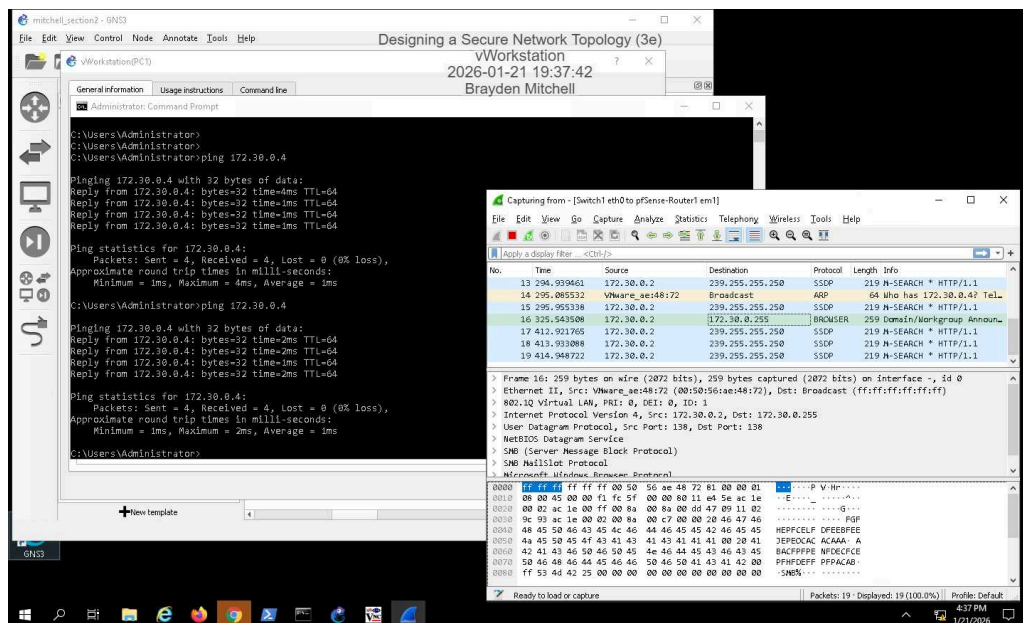
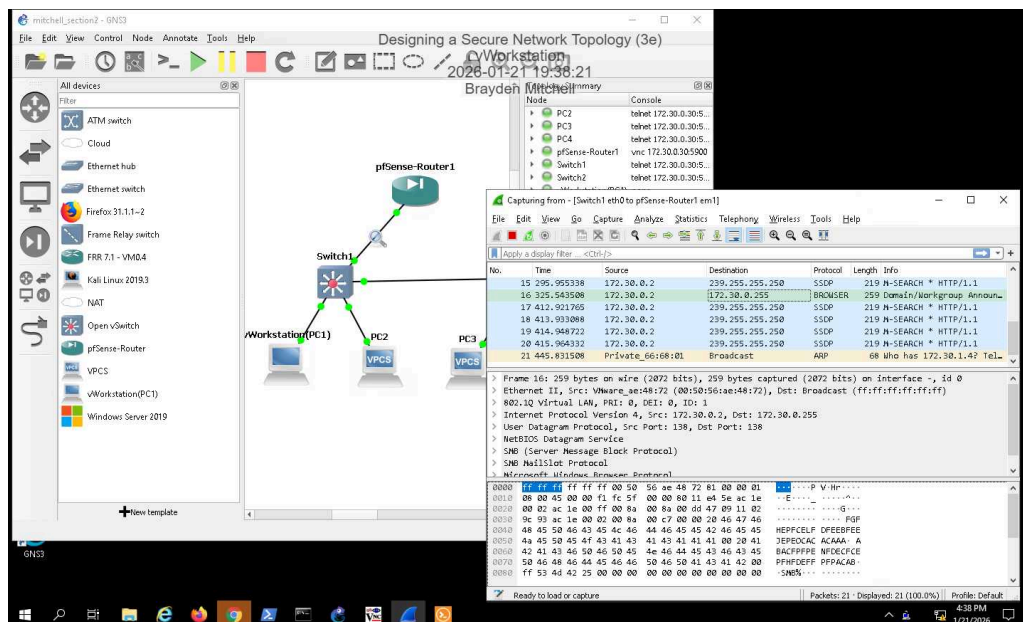39. **Make a screen capture** showing the **completed topology**.

Part 2: Capture Network Traffic to Validate Connectivity

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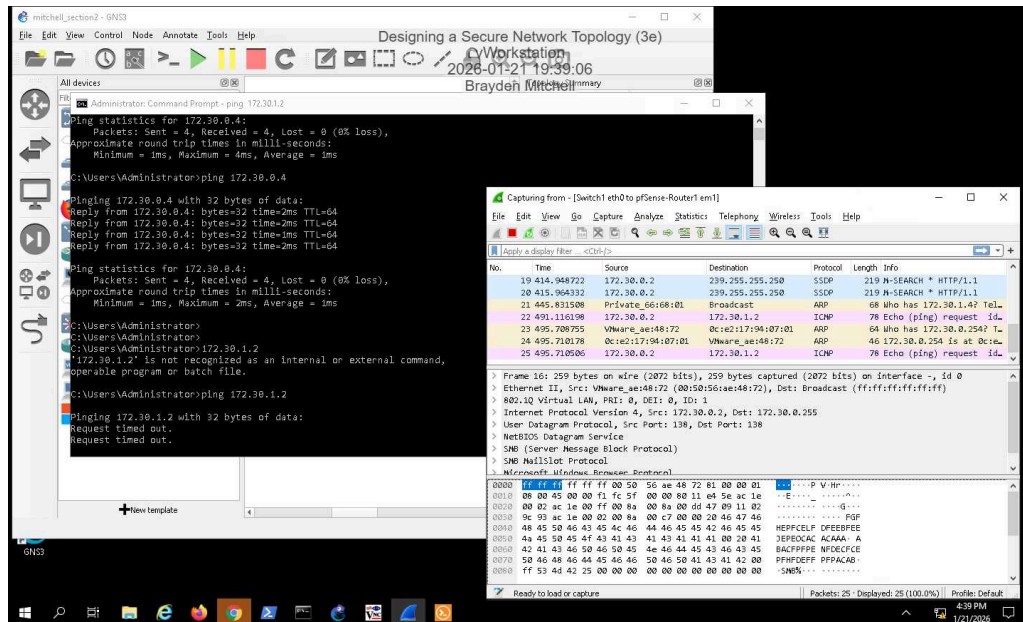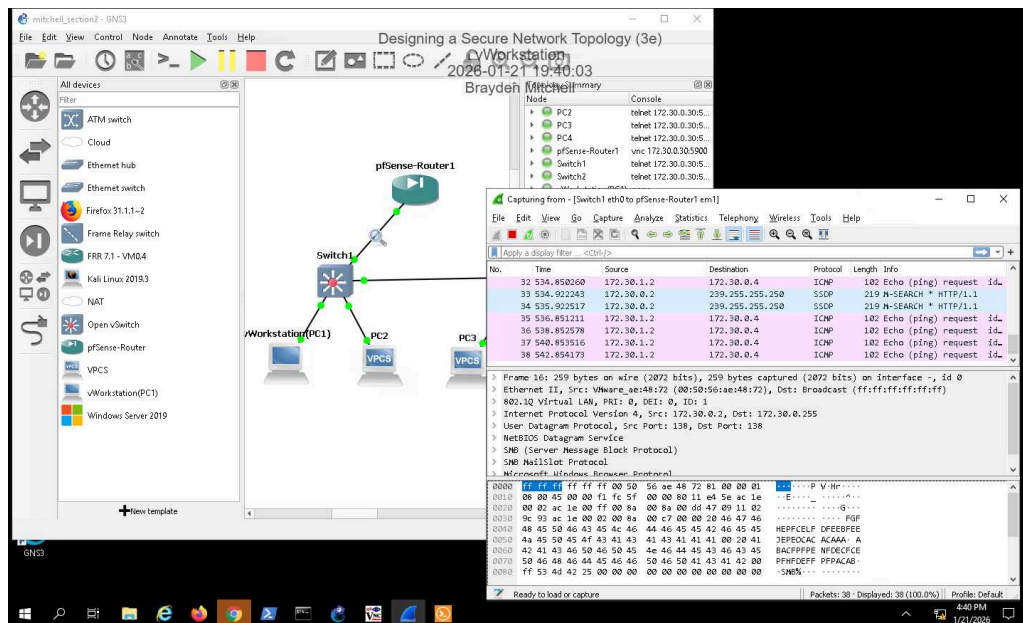
7. **Make a screen capture** showing the **Wireshark capture for the vWorkstation to PC2 ping request**.

9. **Make a screen capture** showing the **Wireshark capture for the PC2 to PC3 ping request**.
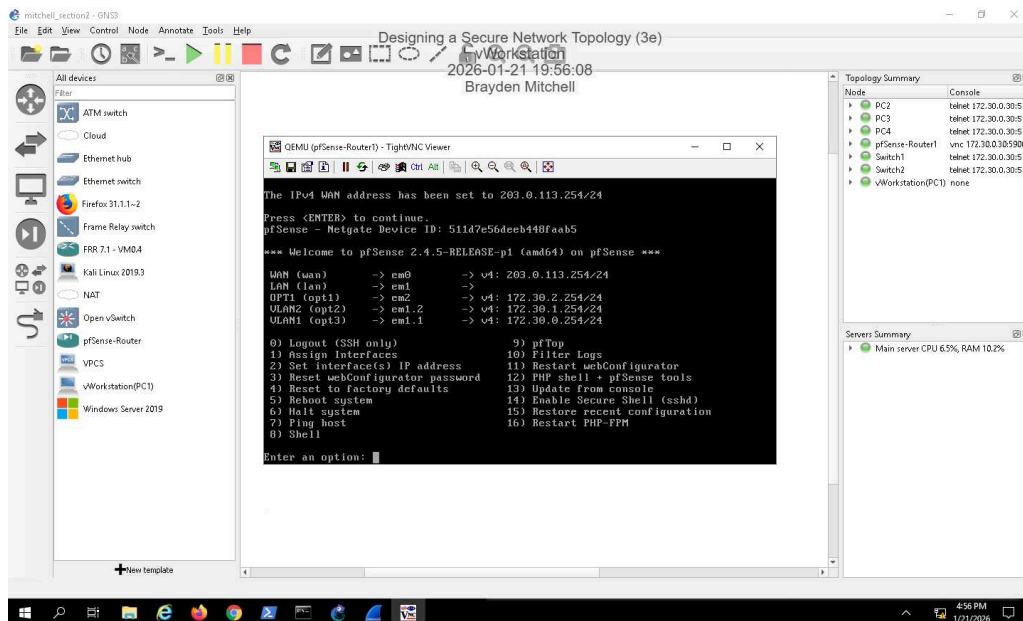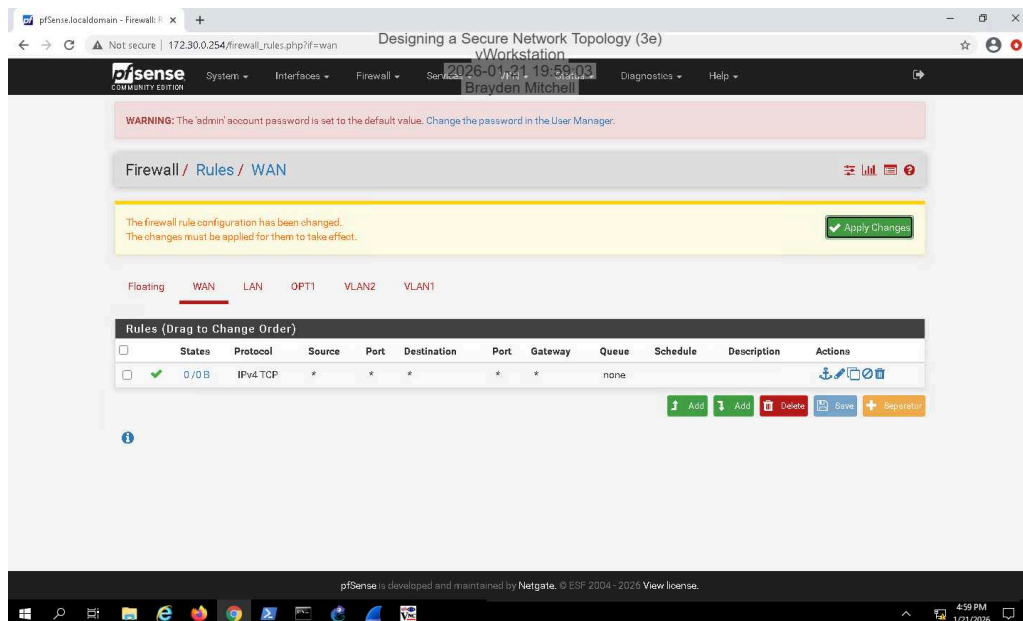
Section 3: Challenge and Analysis

Part 1: Enhance the Network Topology with a DMZ

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

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

Part 2: Validate DMZ Connectivity

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