#### **Designing a Secure Network Topology (3e)**

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

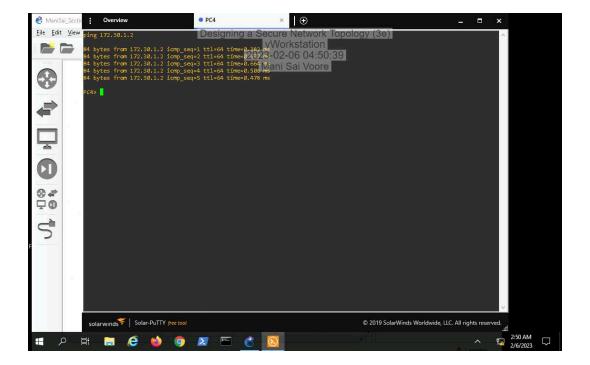
Student:	Email:
Mani Sai Voore	mvoore@cbu.edu
Time on Task:	Progress:
11 hours, 18 minutes	100%

### **Section 1: Hands-On Demonstration**

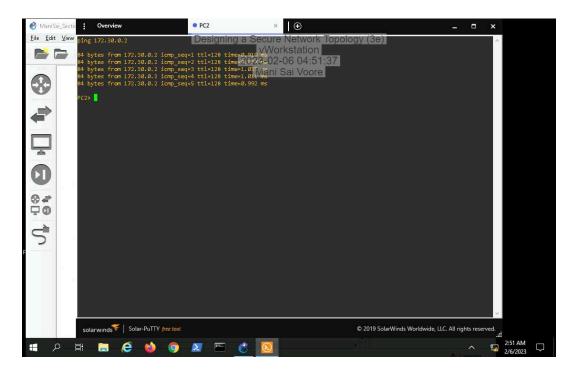
# Part 1: Design a Simple Network Topology

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

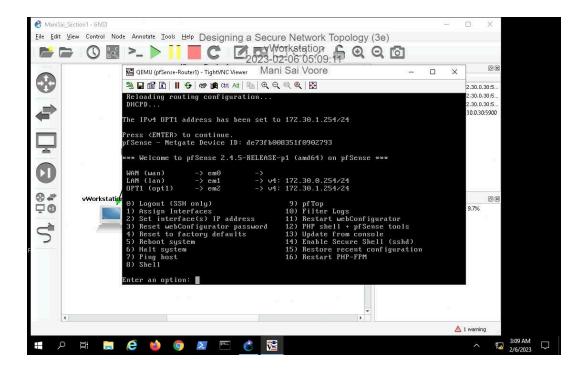
Report Generated: Sunday, February 12, 2023 at 10:28 PM



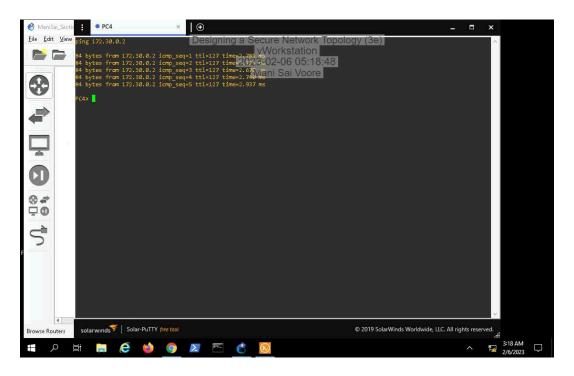
37. Make a screen capture showing the results of the ping attempt from PC2 to the vWorkstation (172.30.0.2).



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

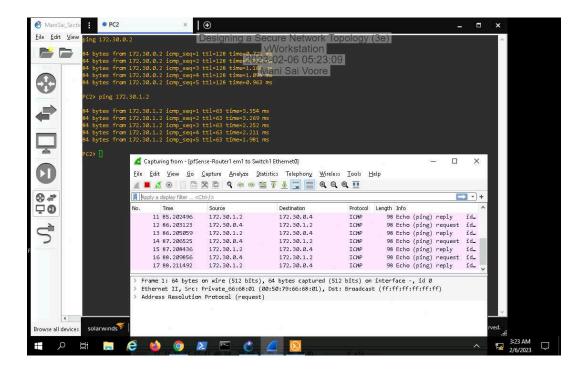


72. Make a screen capture showing the successful ping from PC4 to the vWorkstation.

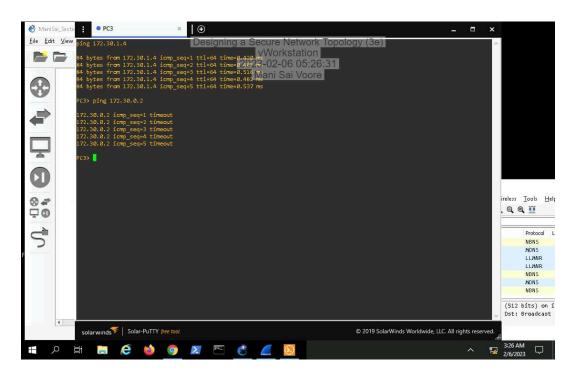


Part 2: Capture Network Traffic to Validate Connectivity

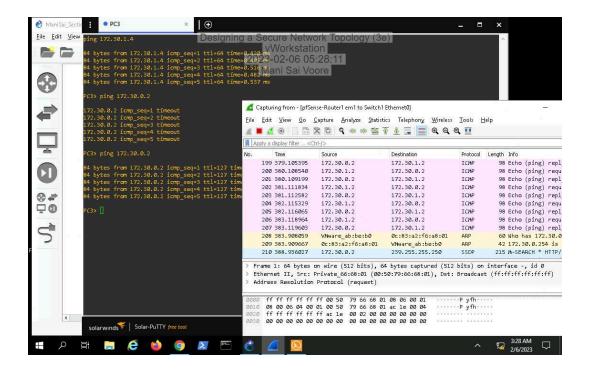
7. Make a screen capture showing the Wireshark capture for the PC2 to PC3 ping request.



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



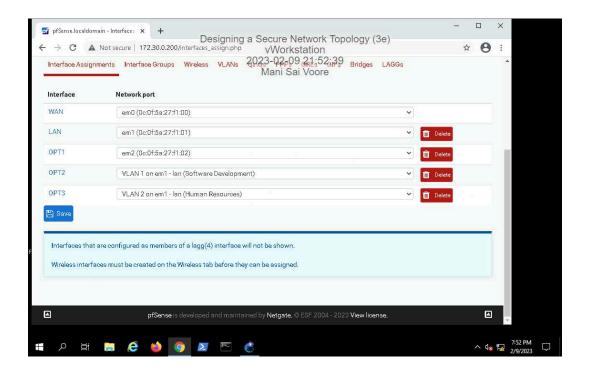
20. Make a screen capture showing the Wireshark capture for the PC3 to vWorkstation ping request.



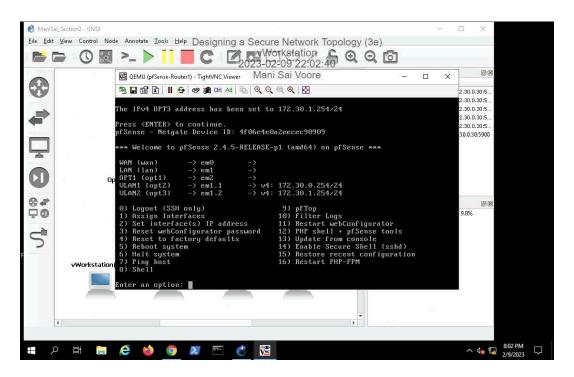
# **Section 2: Applied Learning**

#### Part 1: Design a More Complex Network Topology

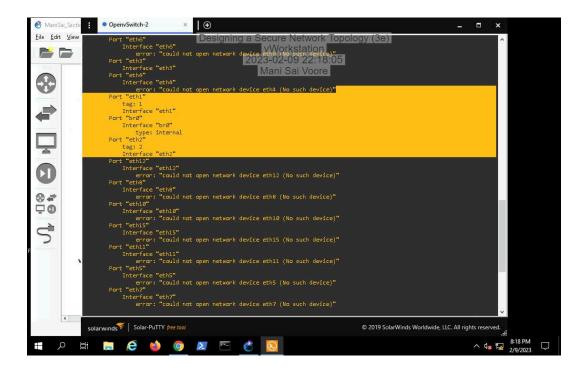
14. Make a screen capture showing the Interface Assignments page.



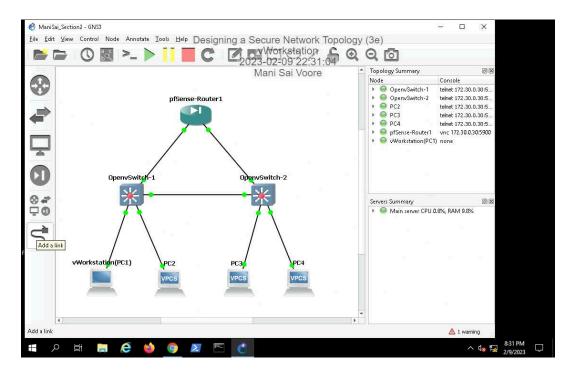
28. Make a screen capture showing the updated pfSense router settings with the VLAN IP address assignments.



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

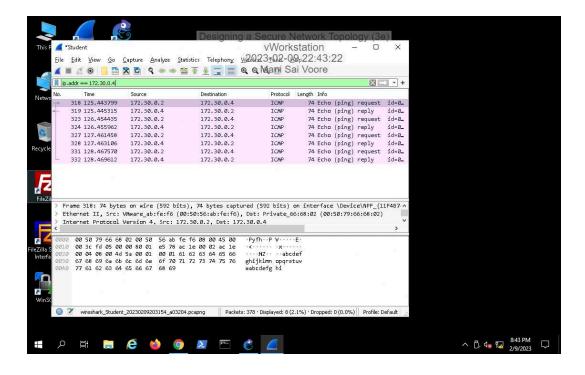


39. Make a screen capture showing the completed topology.

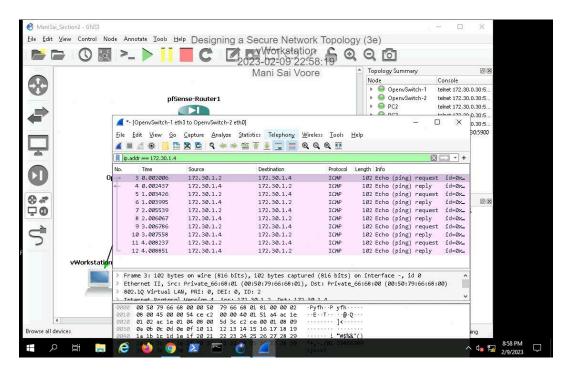


Part 2: Capture Network Traffic to Validate Connectivity

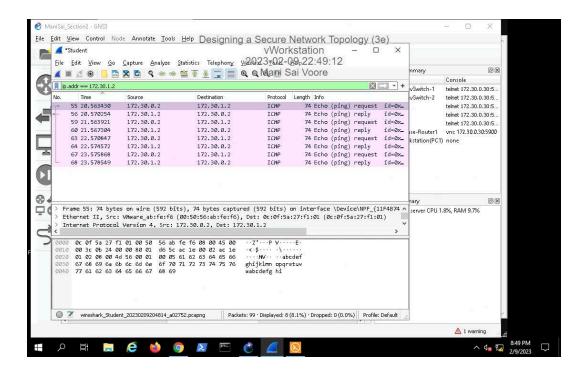
3. Make a screen capture showing the Wireshark capture for the vWorkstation to PC3 ping request.



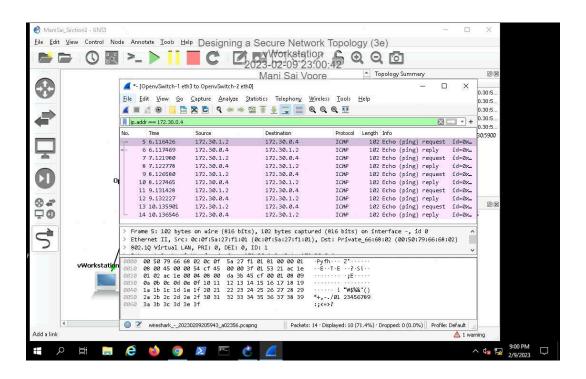
5. Make a screen capture showing the Wireshark capture for the PC2 to PC4 ping request.



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



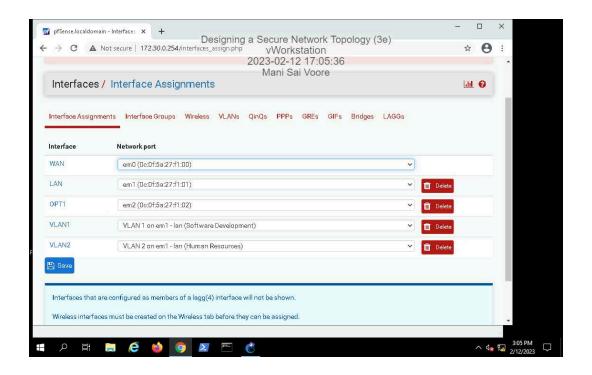
9. Make a screen capture showing the Wireshark capture for the PC2 to PC3 ping request.



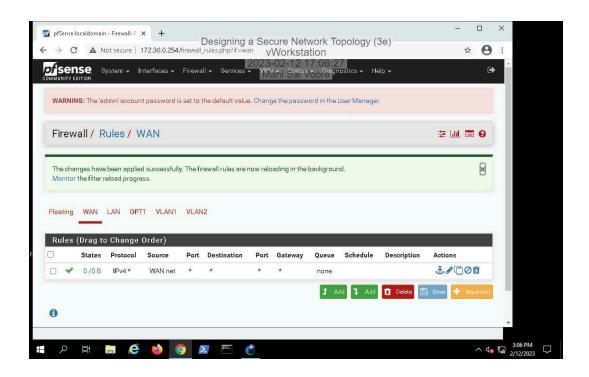
# **Section 3: Challenge and Analysis**

#### 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.

