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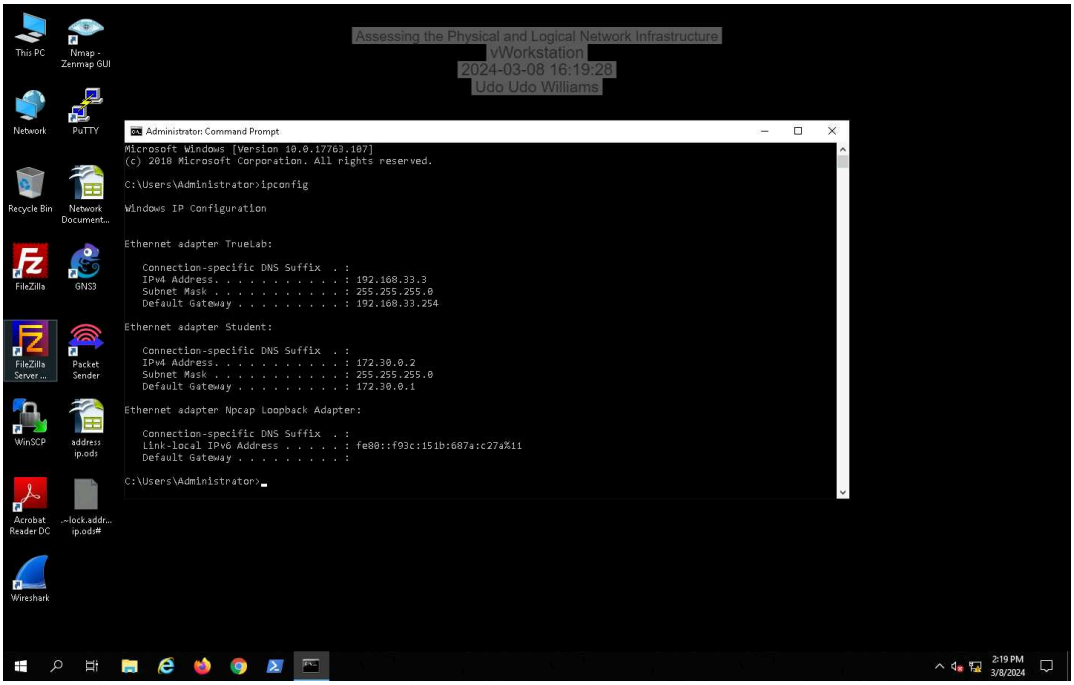
Time on Task:	Progress:
18 hours, 0 minutes	100%

Report Generated: Saturday, March 9, 2024 at 11:15 PM

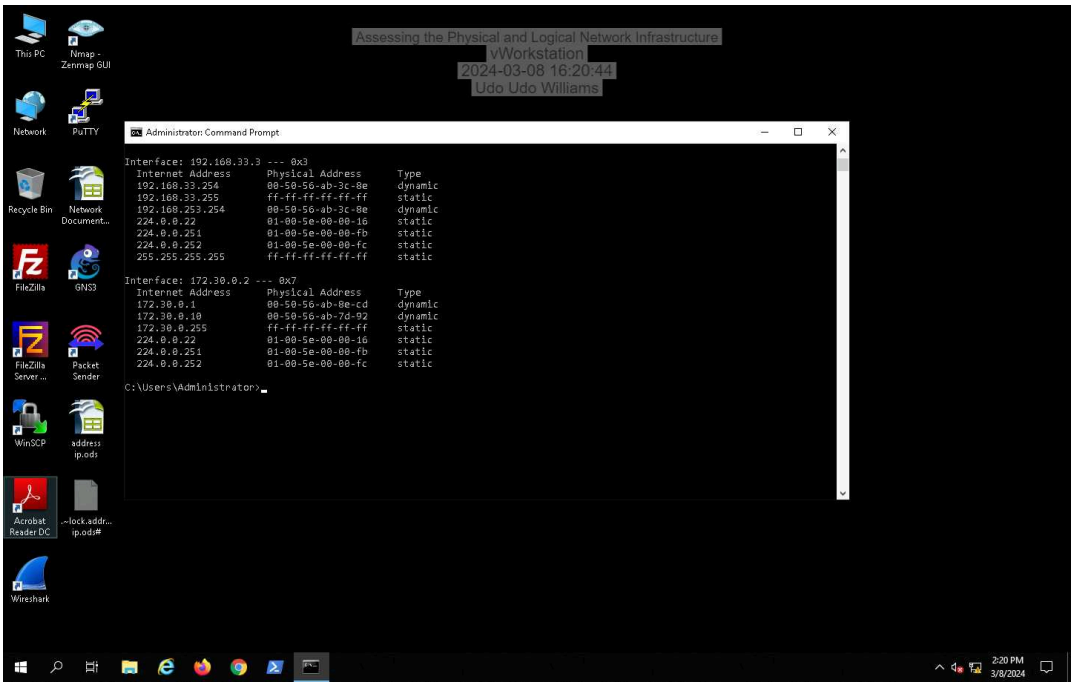
Section 1: Hands-On Demonstration

Part 1: Access the Default Gateway Router

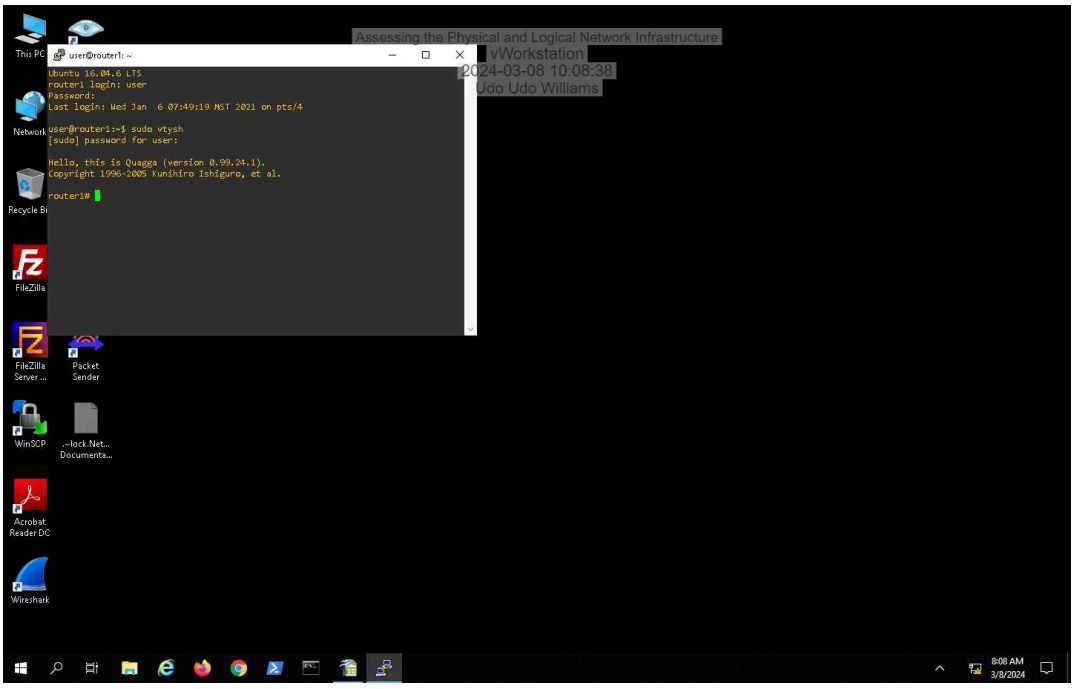
5. **Make a screen capture** showing the **IP configuration for the vWorkstation**.



8. **Make a screen capture** showing the **ARP cache for the vWorkstation**.

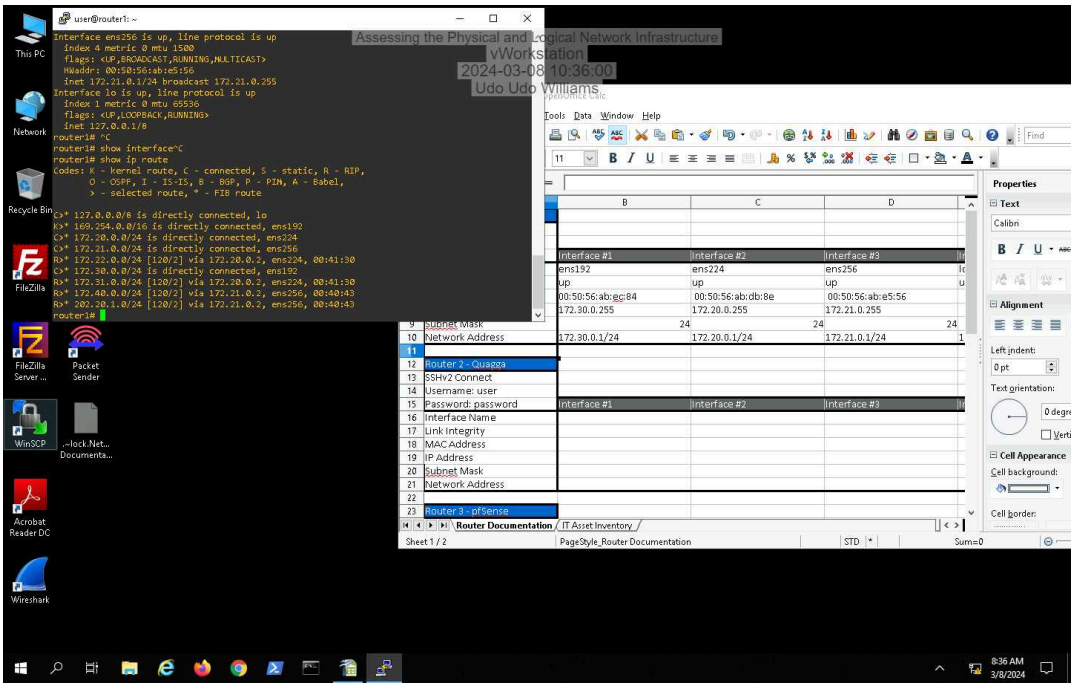


16. **Make a screen capture** showing the **router1 console shell**.

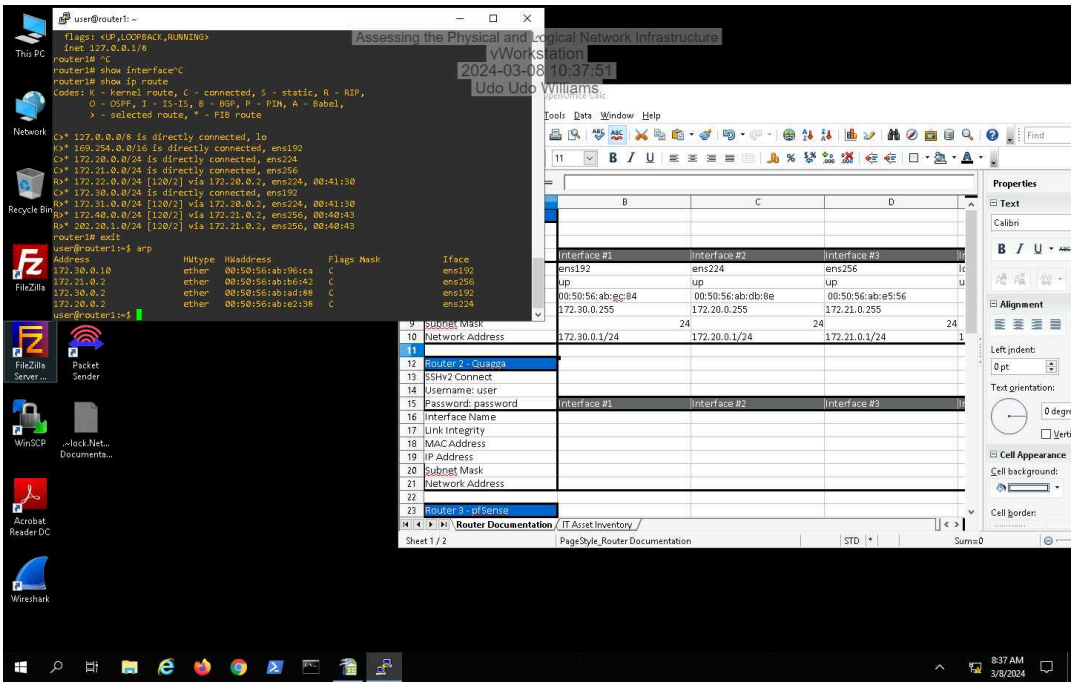


Part 2: Collect Physical, Data Link, and Network Layer Information for a Quagga Router

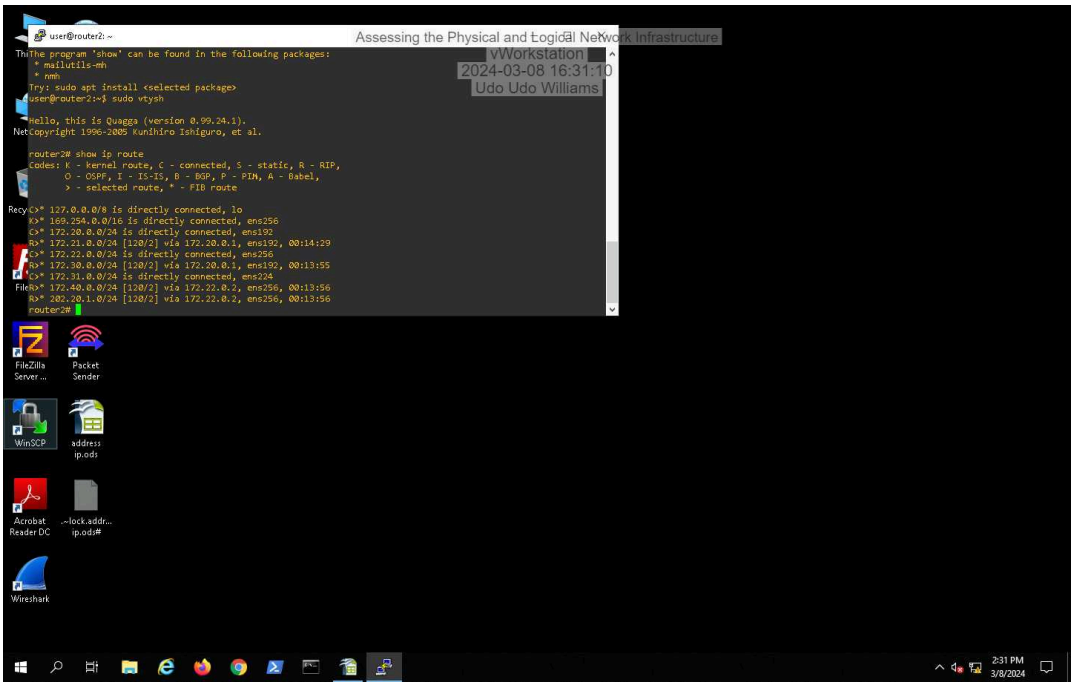
6. **Make a screen capture** showing the **IP routes for router1**.



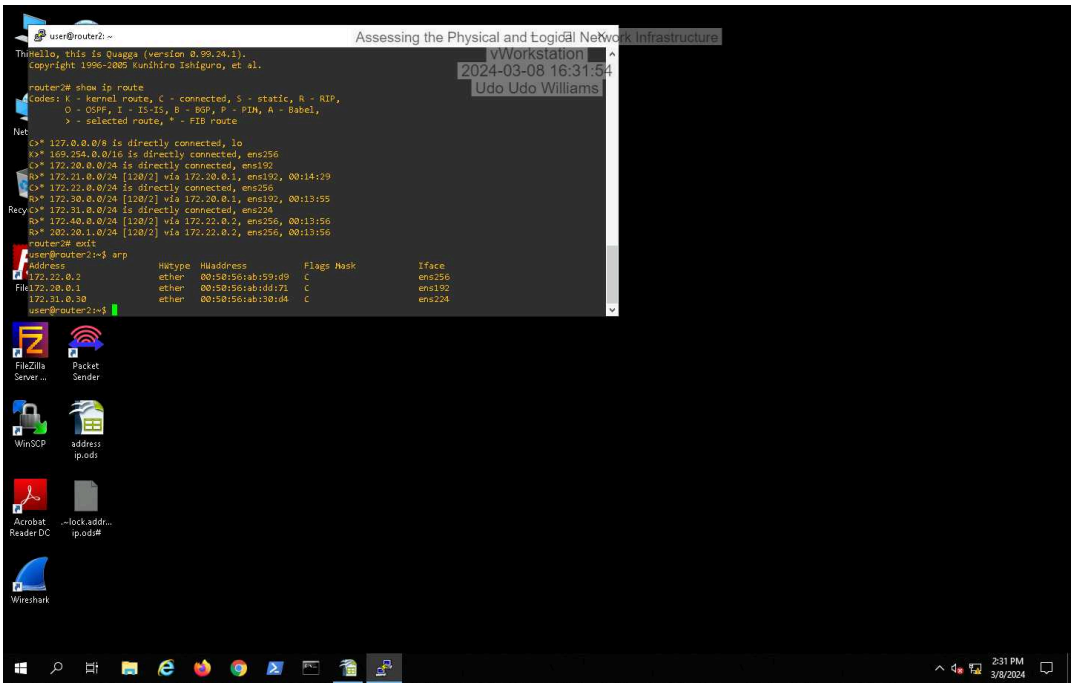
9. **Make a screen capture** showing the **ARP cache for router1**.



18. **Make a screen capture** showing the **IP routes for router2**.

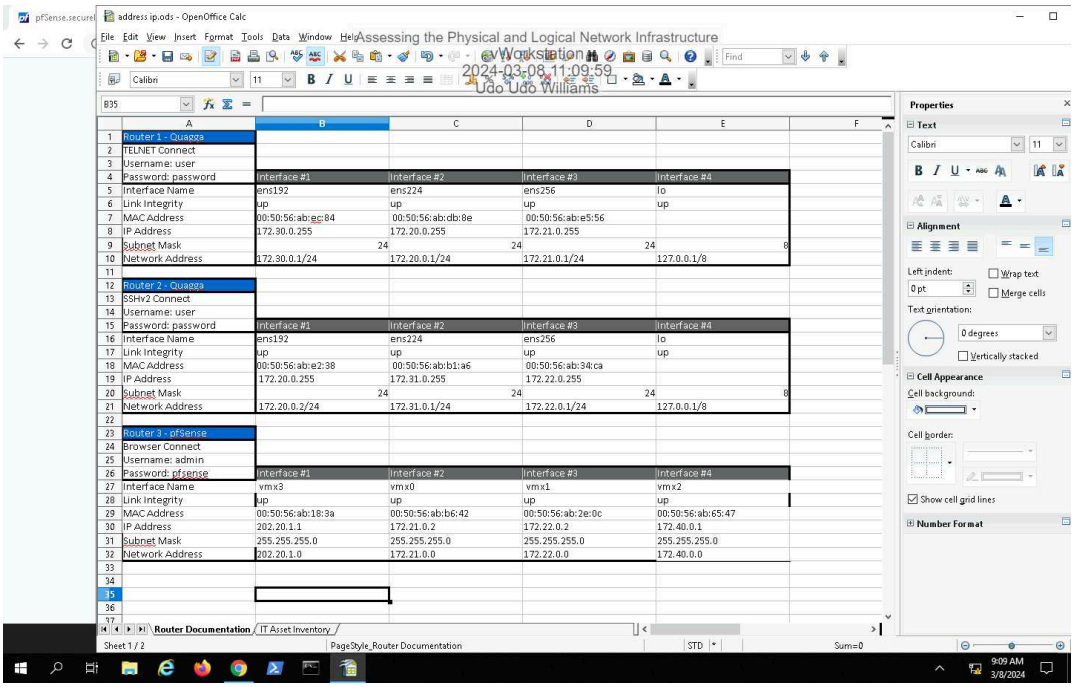


20. **Make a screen capture** showing the **ARP cache for router2**.

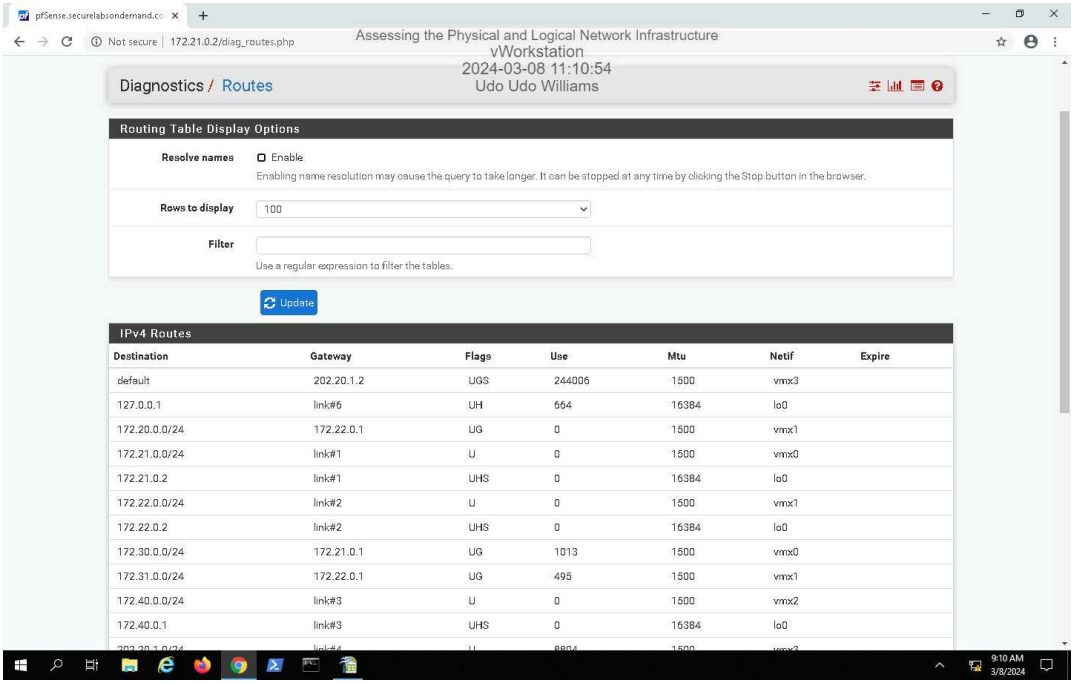


Part 3: Collect Physical, Data Link, and Network Layer Information for a pfSense Device

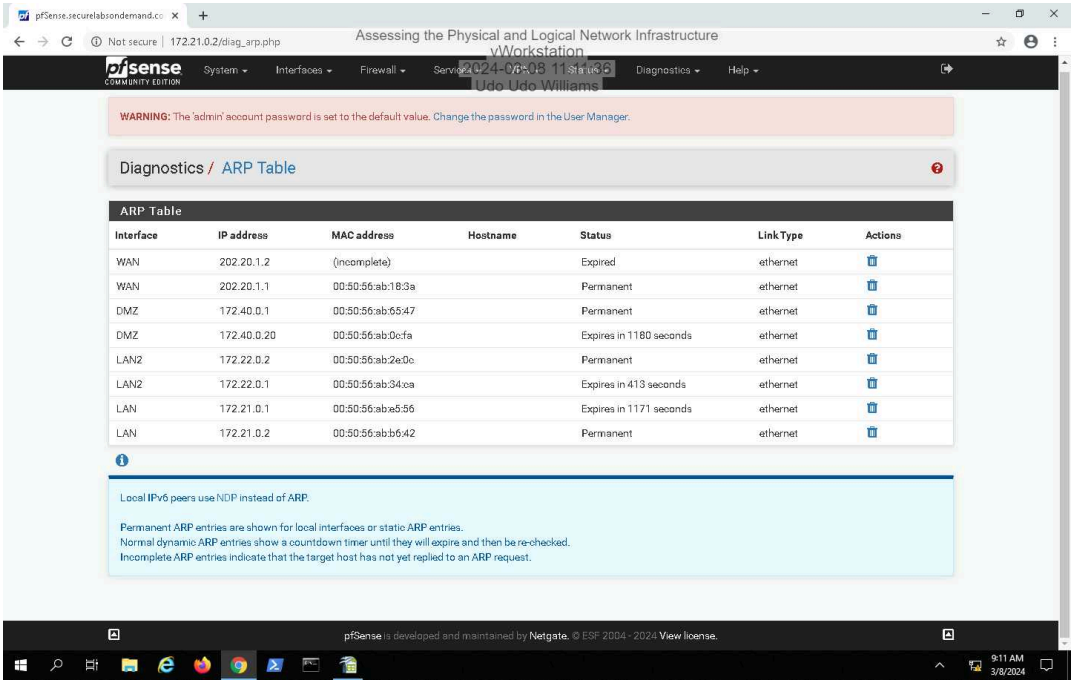
6. **Make a screen capture** showing the **completed Network Documentation spreadsheet**.



8. **Make a screen capture** showing the **IP Routes for the pfSense device**.



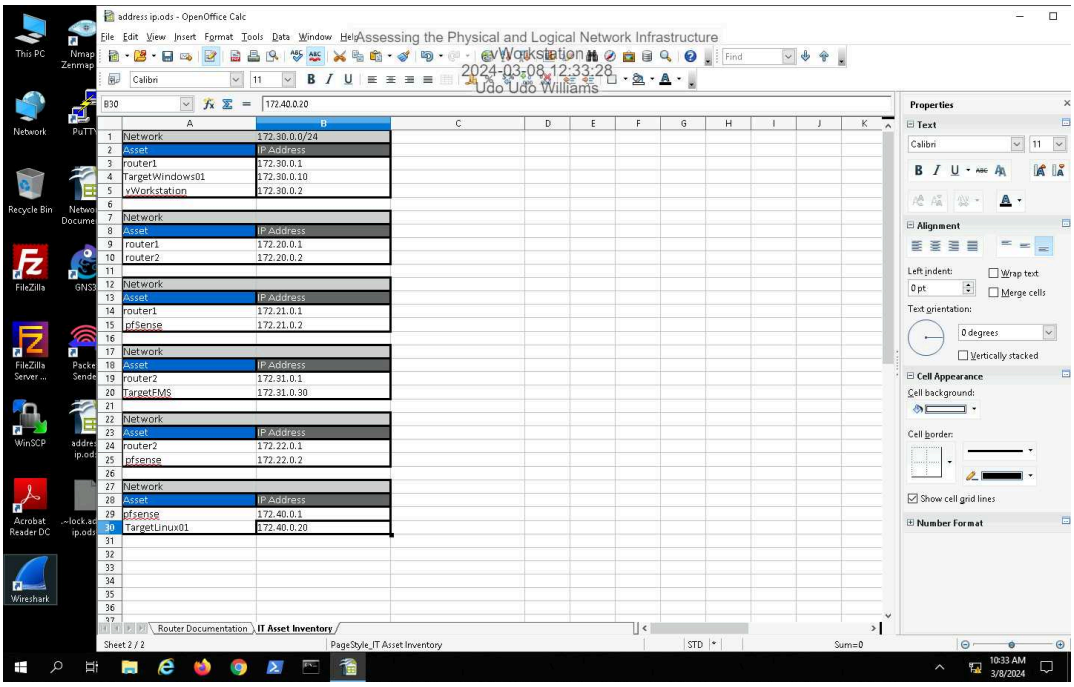
10. **Make a screen capture** showing the **ARP table for pfSense**.



Section 2: Applied Learning

Part 1: Build an IT Asset Inventory Using Zenmap

8. **Make a screen capture** showing the **completed IT Asset Inventory tab**.



Part 2: Compare IP Routing Tables

5. **Record** each directly connected IP host and subnet in the router1 IP routing table.

127.0.0.0/8 is directly connected, lo169.254.0.0/16 is directly connected to ens192172.20.0.0/24 is directly connected to ens224172.21.0.0/24 is directly connected to ens256172.30.0.0/24 is directly connected to ens192

8. **Record** each directly connected IP host and subnet in the router2 IP routing table.

127.0.0.0/8 directly connected to lo169.254.0.0/16 directly connected to ens192172.20.0.0/24 directly connected to ens192172.22.0.0/24 connected to ens256172.31.0.0/24 connected to ens224

12. **Record** each directly connected IP host and subnet in the pfSense IPv4 routing table.

    In pfSense, the directly connected hosts or subnets are those that list a link# in the Gateway column, rather than IP address.

1270.0.1 link6172.21.0.0/24 link1172.21.0.2 link1172.22.0.0/24 link2172.22.0.2 link2172.40.0.0/24 link3172.40.0.1 link3202.20.0.0/24 link4202.20.101 link4

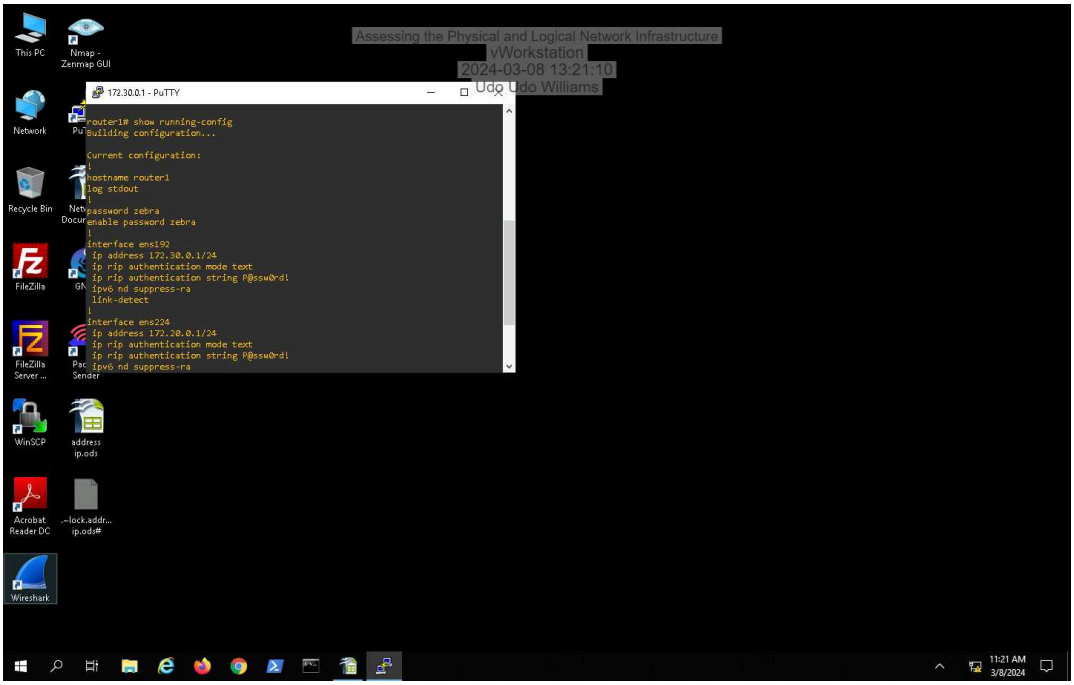
13. **Compare** your findings with the IT Asset Inventory and Router Documenation in the Network Documentation spreadsheet.

    Do your findings match your documentation?

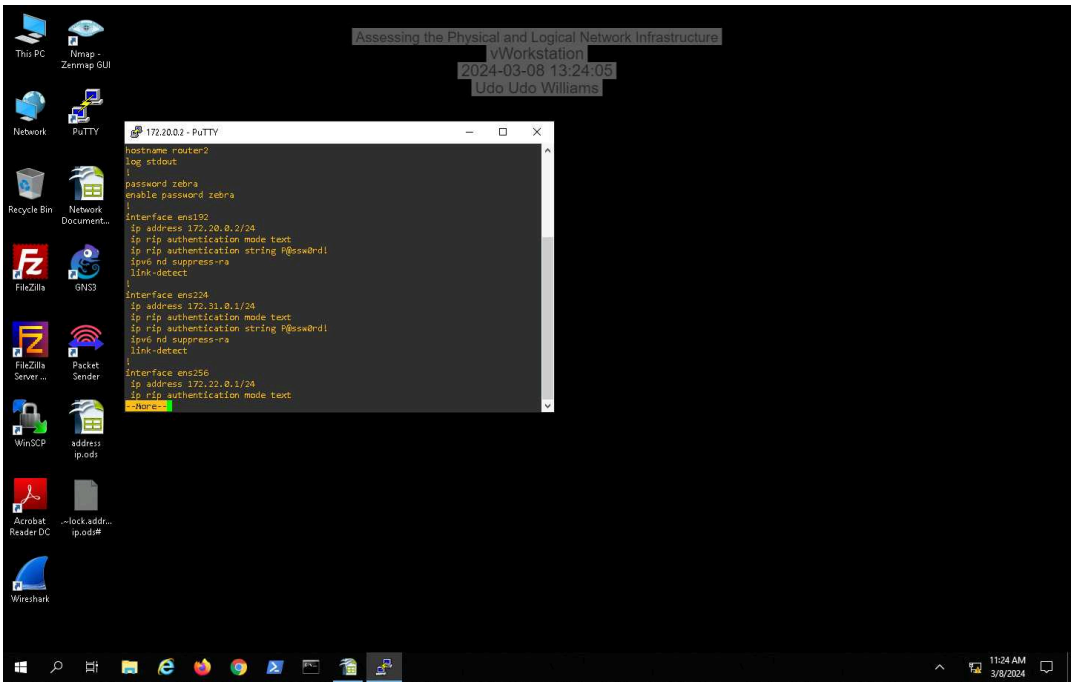
yes

Part 3: Use the Router Configuration File to Verify Interface Documentation

5. **Make a screen capture** showing the **configuration file for router1**.



8. **Make a screen capture** showing the **configuration file for router2**.



14. **Document** the following **information from the config.xml file**:

    a. Hostname
    b. Interfaces Names and IP Addresses

pfsensevmx3 202.20.1.1vmx0 172.21.0.2vmx1 172.22.0.2vmx2 172.40.0.1

15. **Compare** your findings with the IT Asset Inventory and Router Documenation in the Network Documentation spreadsheet.

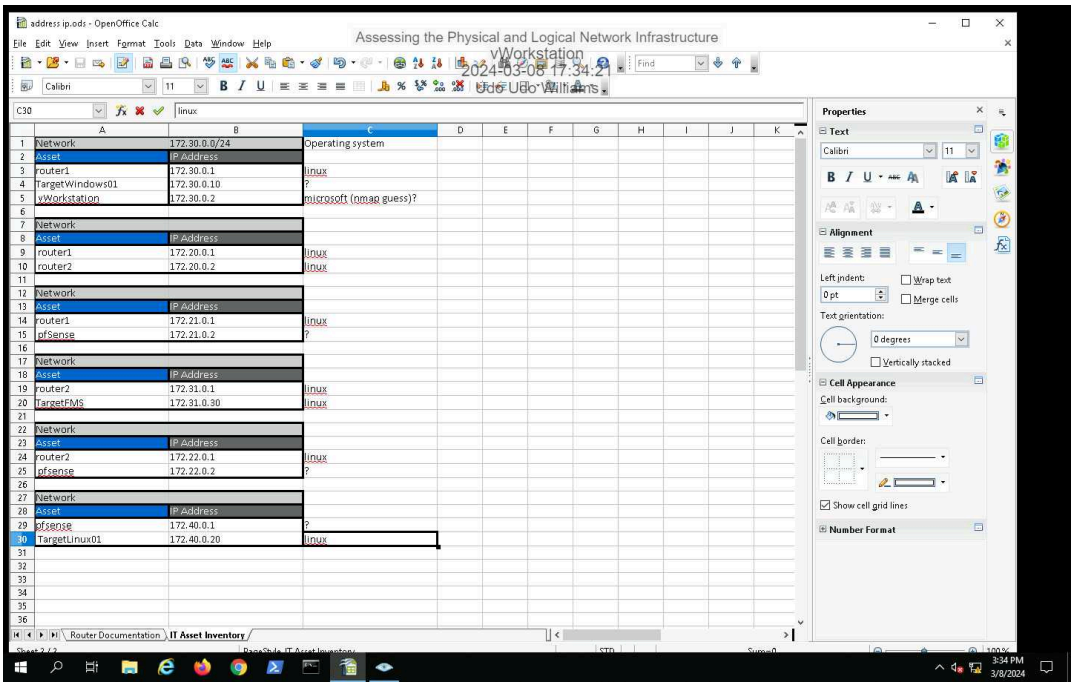
    Do your findings match your documentation?

yes

Section 3: Challenge and Analysis

Part 1: Create a Corporate Network Documentation Package

Make a screen capture showing the **completed Asset Inventory tab with the new OS column**.



Part 2: Convert Nmap Output into an HTML Report

Document the command used to generate the XML output file.

nmap -O -oX output_file.xml 172.30,31,21,40,20,22.0.0/24

Make a screen capture showing the **HTML report generated from your scan in Internet Explorer**.