Assessing the Physical and Logical Network Infrastructure

Fundamentals of Communications and Networking, Third Edition - Lab 01

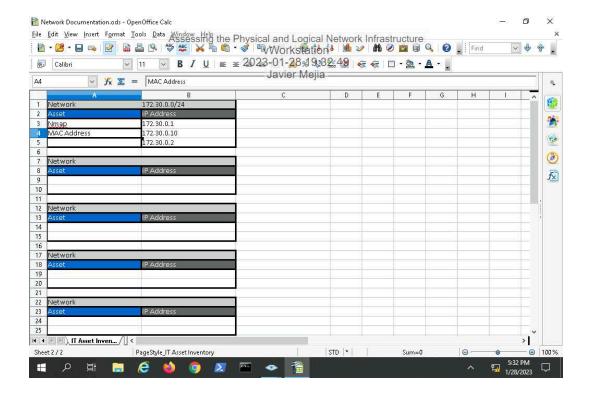
Student:	Email:
Javier Mejia	enriquem2260@gmail.com
Time on Task:	Progress:
3 hours, 0 minutes	77%

Report Generated: Saturday, January 28, 2023 at 9:56 PM

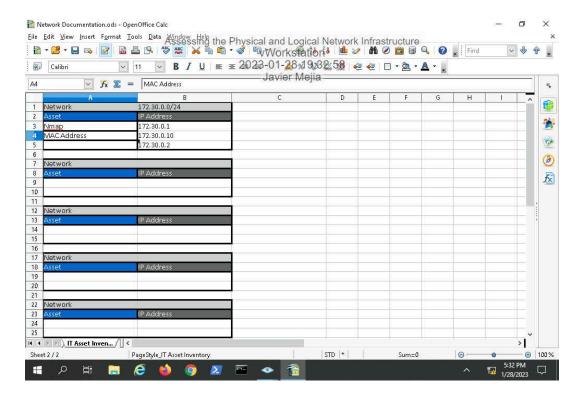
Section 1: Hands-On Demonstration

Part 1: Access the Default Gateway Router

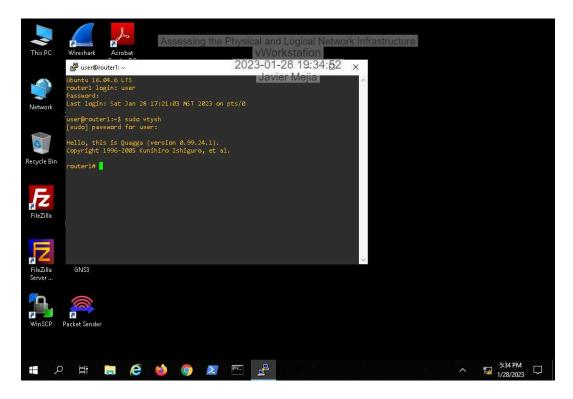
5. Make a screen capture showing the IP configuration for the vWorkstation.



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



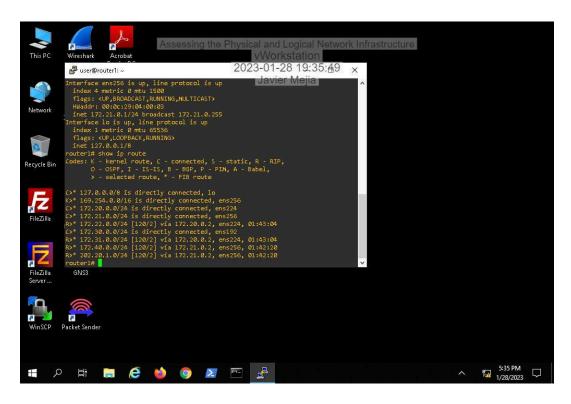
16. Make a screen capture showing the router1 console shell.



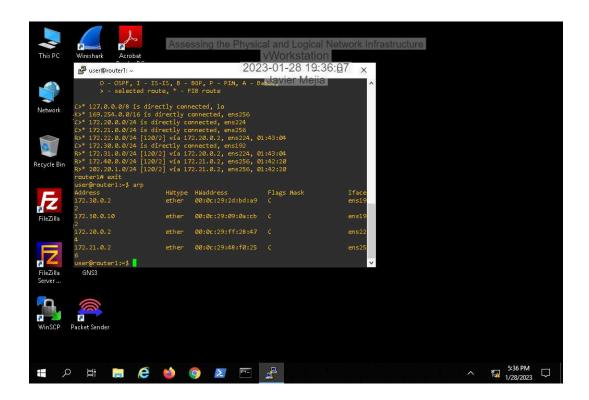
Part 2: Collect Physical, Data Link, and Network Layer Information for a Quagga

Router

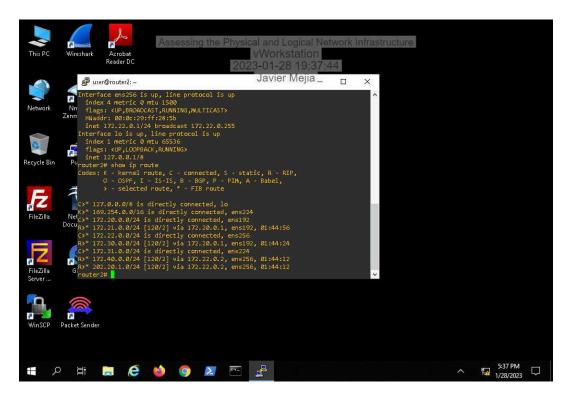
6. Make a screen capture showing the IP routes for router1.



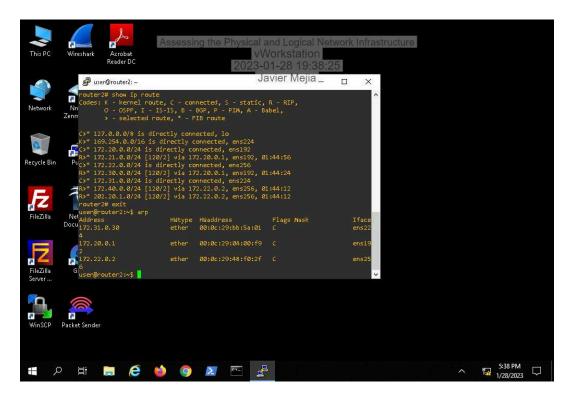
9. Make a screen capture showing the ARP cache for router1.



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



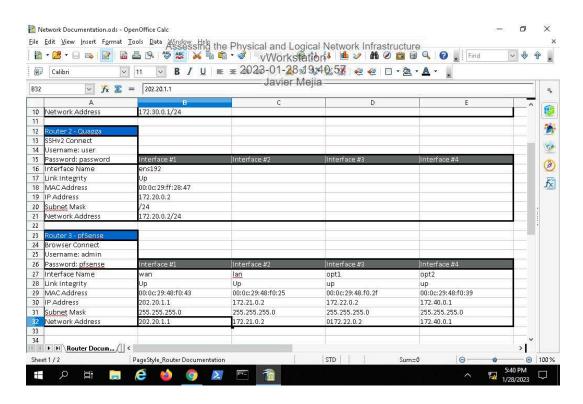
20. Make a screen capture showing the ARP cache for router2.



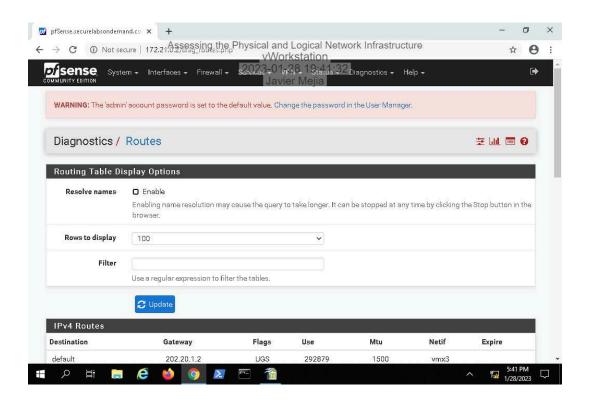
Part 3: Collect Physical, Data Link, and Network Layer Information for a pfSense

Device

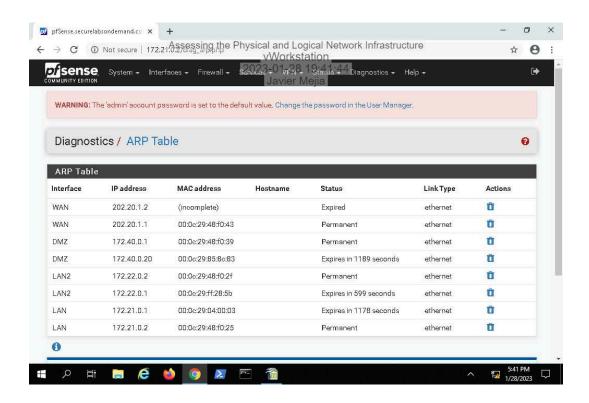
6. Make a screen capture showing the completed Network Documentation spreadsheet.



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



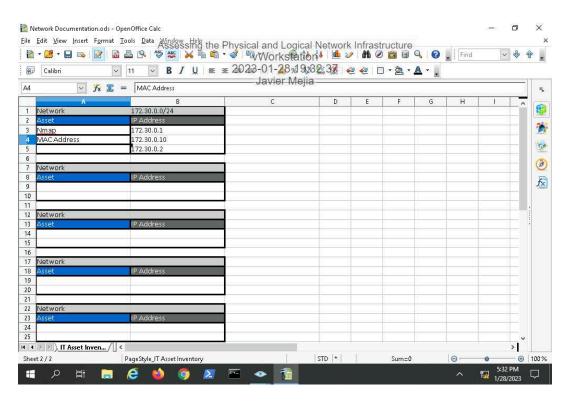
10. Make a screen capture showing the ARP table for pfSense.



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.

k > 169.254.0.0*16 c > 172.20.0.0/24

r > 172.31.0.0/24

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

c >127.0.0/8 k > 169.254.0.0/16

r > 172.22.0.0/24

12. I	Record each	directly connected I	P host and subnet	t in the pfSense IPv4	routing table.
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In pfSense, the directly connected hosts or subnets are those that list a link# in the Gateway column, rather than IP address.

127.0.0.1 172.20.0.0/24
172.21.0.0/24
172.21.0.2
172.22.0.0/24
172.22.0.2
172.30.0.0/24
172.31.0.0/24
172.40.0.0/24
172.40.0.1
202.20.1.0/24
202.20.1.1

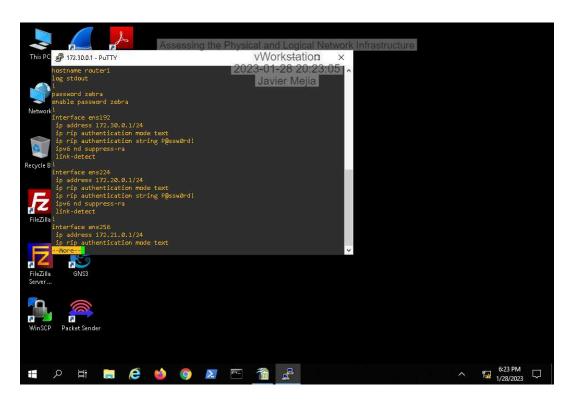
13. **Compare** your findings with the IT Asset Inventory and Router Documenation in the Network Documentation spreadsheet.

Do your findings match your documentation?

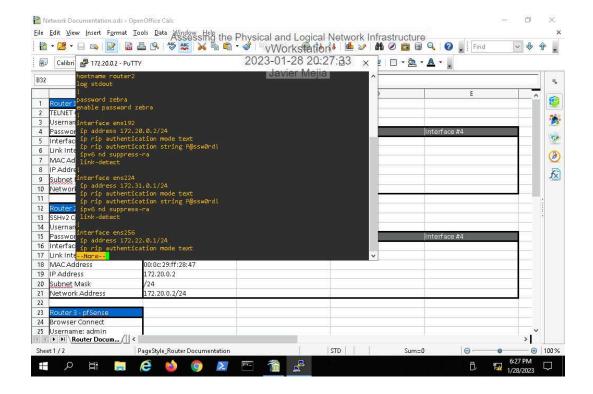
Yes I found similar IP address.

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.



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14.	Document the following information from the config.xml file:
	a. Hostname b. Interfaces Names and IP Addresses
	b. Interfaces Names and if Addresses
	Incomplete
15.	Compare your findings with the IT Asset Inventory and Router Documenation in the Network Documentation spreadsheet.
	Do your findings match your documentation?
	Incomplete
	moomplete

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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.

Incomplete

Part 2: Convert Nmap Output into an HTML Report

Document the command used to generate the XML output file.

Incomplete

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

Incomplete