### **Conducting Forensic Investigations on Network Infrastructure (4e)**

Digital Forensics, Investigation, and Response, Fourth Edition - Lab 09

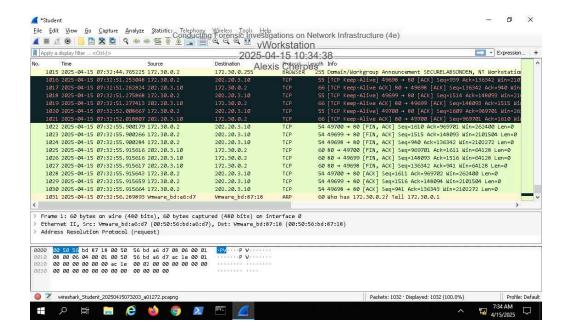
Student:	Email:
Alexis Cherpes	cherpea@ferris.edu
Time on Task:	Progress:
1 hour, 15 minutes	100%

Report Generated: Thursday, May 22, 2025 at 4:51 PM

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

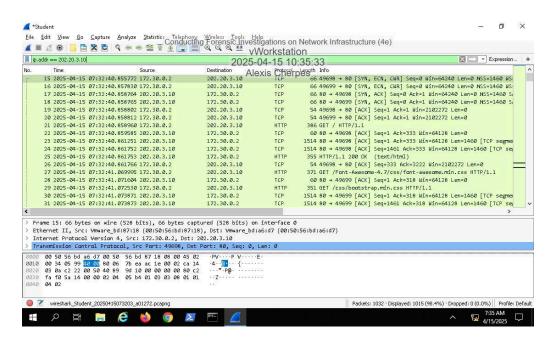
### Part 1: Perform Packet Capture and Analysis

11. Make a screen capture showing the timestamp-sorted traffic.

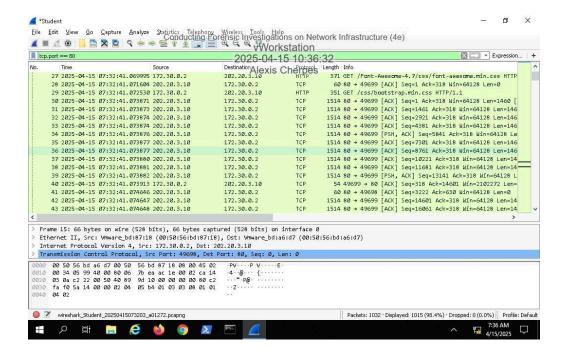


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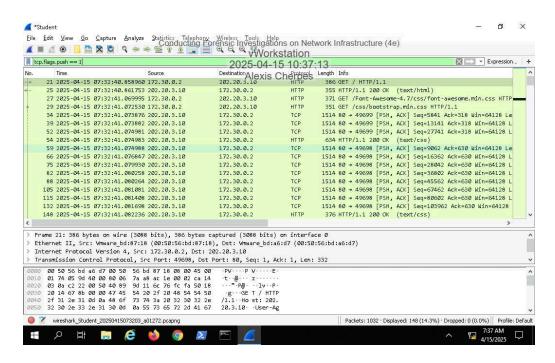
13. Make a screen capture showing the IP-filtered traffic.



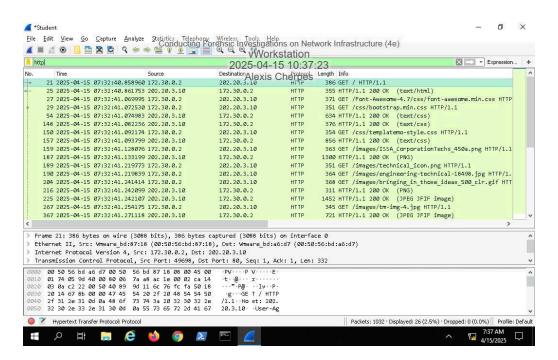
15. Make a screen capture showing the port-filtered traffic.



17. Make a screen capture showing the TCP push flag-filtered traffic.

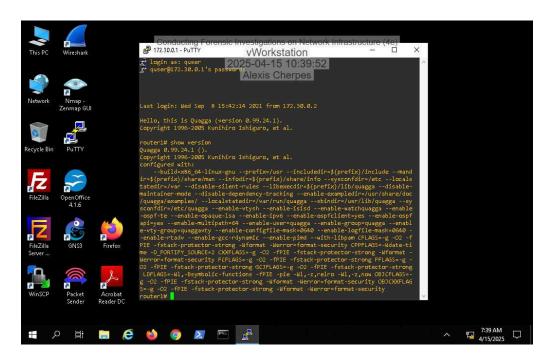


19. Make a screen capture showing the http-filtered traffic.

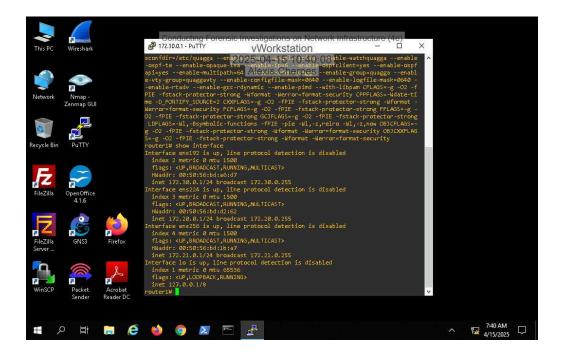


Part 2: Analyze a Router for Forensic Evidence

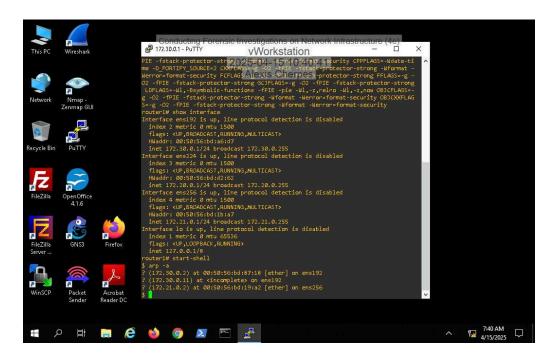
5. Make a screen capture showing the router's version output.



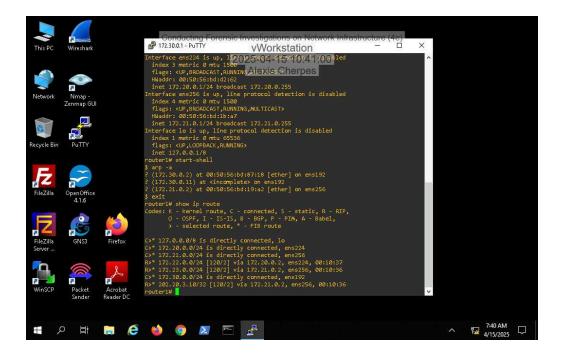
7. Make a screen capture showing the router's interface details.



10. Make a screen capture showing the router1 ARP table.



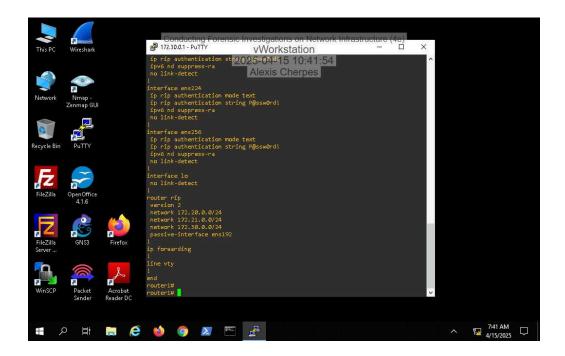
13. Make a screen capture showing the IP routing table.



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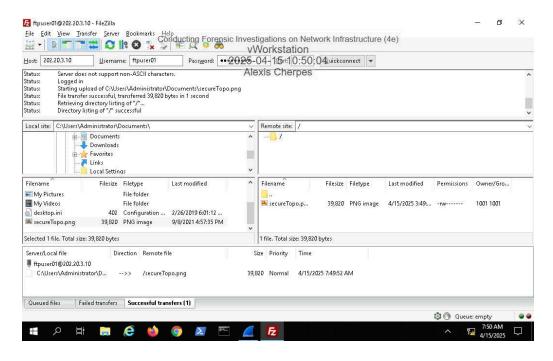
15. Make a screen capture showing the currently running configuration.



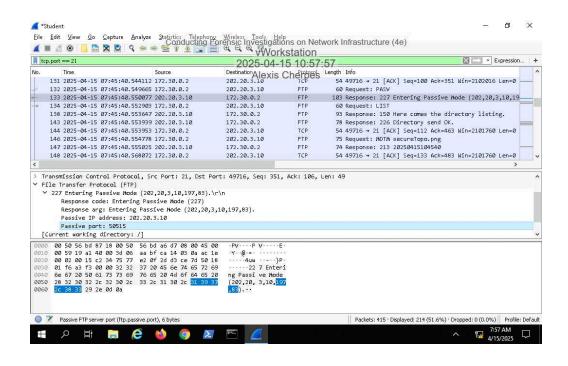
# **Section 2: Applied Learning**

### Part 1: Perform Advanced Packet Capture and Analysis

7. Make a screen capture showing the successful transfer of the secureTopo.png file.

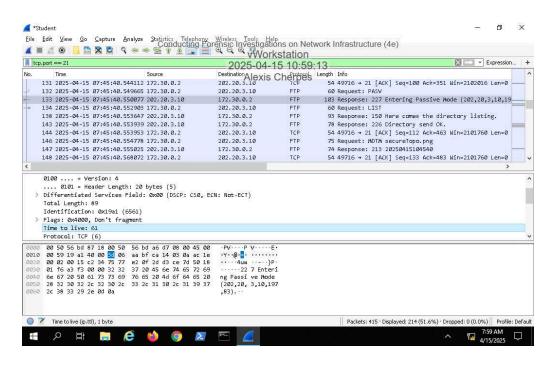


15. Make a screen capture showing the passive port specified by the FTP server in the Packet Details pane.

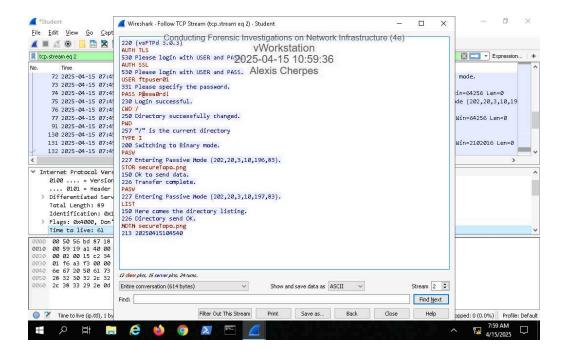


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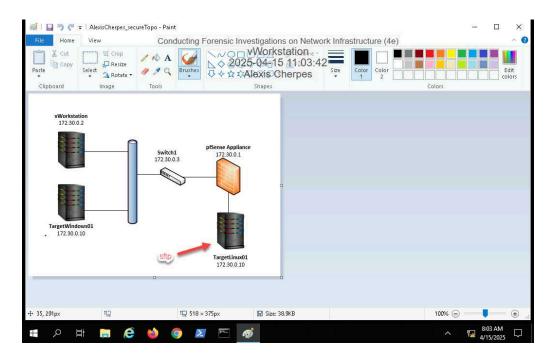
18. Make a screen capture showing the Time to live field in the Packet Details pane.



20. Make a screen capture showing the Follow TCP stream window.

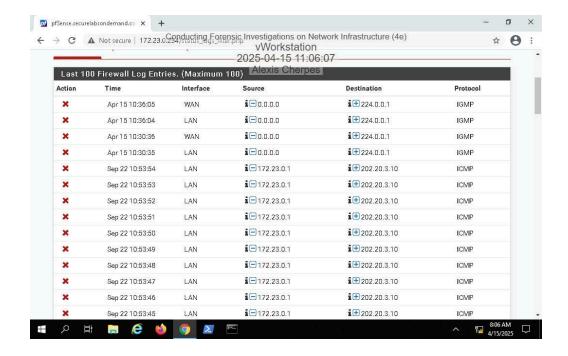


#### 32. Make a screen capture showing the reconstituted PNG file.



Part 2: Analyze a Firewall for Forensic Evidence

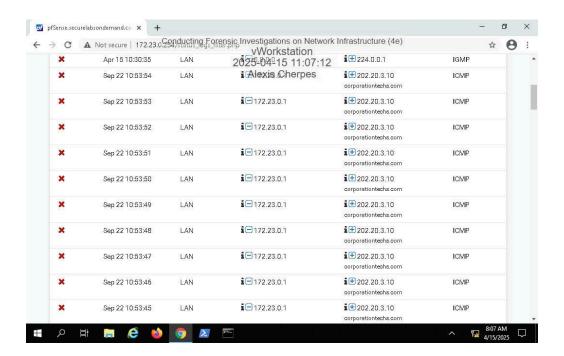
9. Make a screen capture showing the entries in the firewall log.



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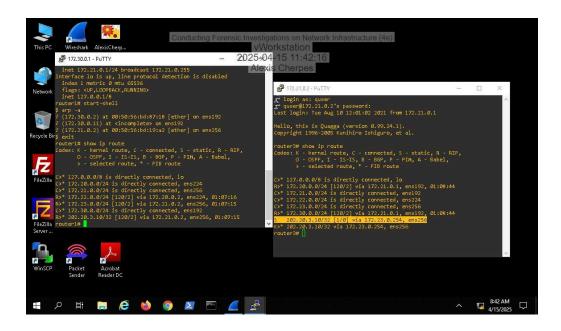
#### 11. Make a screen capture showing the resolved entries in the firewall log.



# **Section 3: Challenge and Analysis**

### Part 1: Identify the Source of a Suspicious Route

Make a screen capture showing the non-RIP route that you discovered on the target router.



## **Part 2: Identify Suspicious Outgoing Connections**

**Record** the destination IP address and Port number of the outgoing connection attempt.

The destination IP is 202.20.3.10. The destination Port Number is 1337.