#### **Performing Packet Capture and Traffic Analysis (4e)**

Fundamentals of Information Systems Security, Fourth Edition - Lab 03

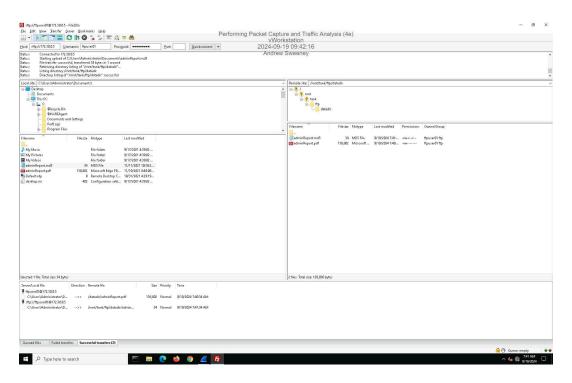
Student:	Email:
Andrew Sweeney	asweene8@depaul.edu
	•
Time on Task:	Progress:
5 hours, 38 minutes	100%

Report Generated: Thursday, September 19, 2024 at 12:47 PM

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

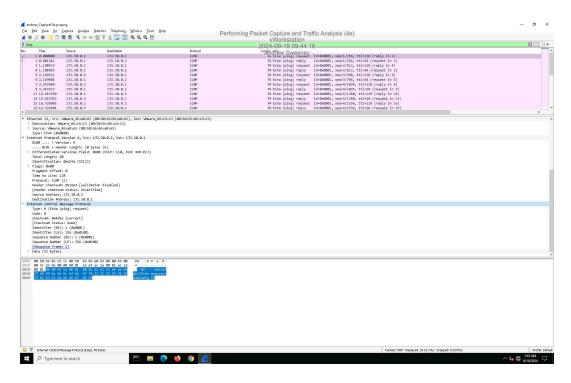
# Part 1: Configure Wireshark and Generate Network Traffic

29. Make a screen capture showing the successful FTP and SFTP file transfers.

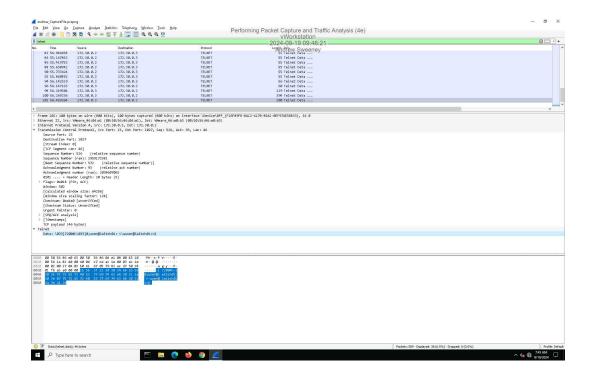


Part 2: Analyze Traffic Using Wireshark

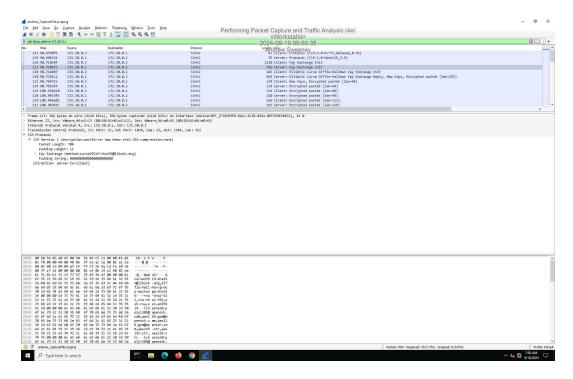
7. Make a screen capture showing the ICMP payload.



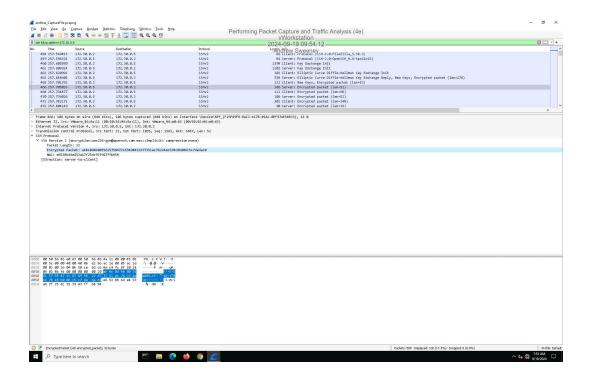
15. Make a screen capture showing the Last Login: information in the Packet Details pane.



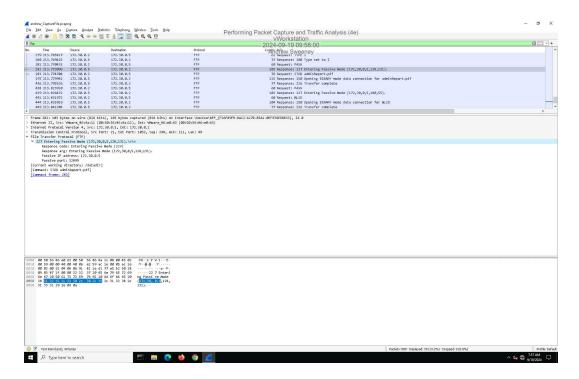
21. Make a screen capture showing the SSHv2 encryption and mac selections for the SSH connection.



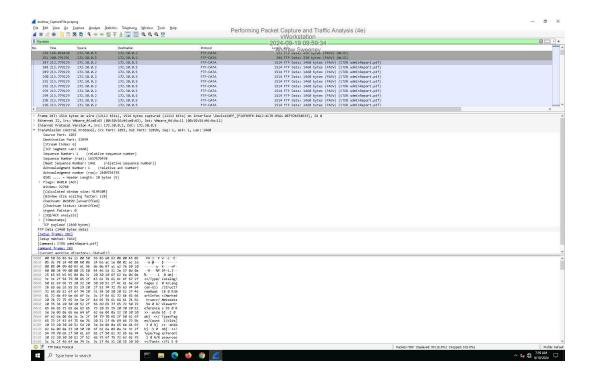
26. Make a screen capture showing the highlighted (encrypted) data in the Packet Bytes pane.



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



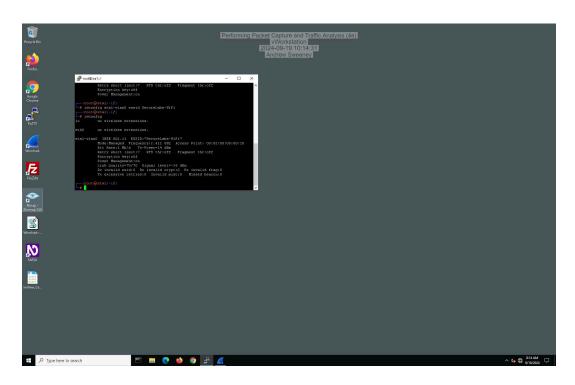
35. Make a screen capture showing the Destination Port field value in the Packet Details pane.



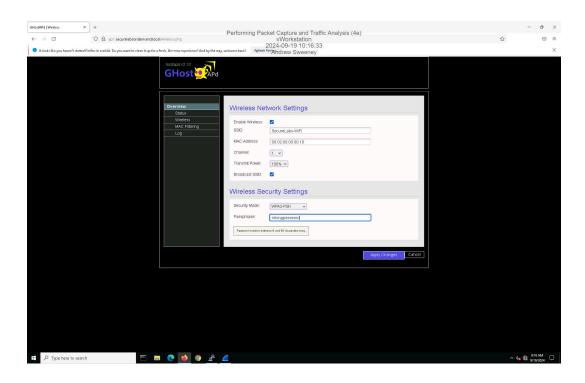
# **Section 2: Applied Learning**

## Part 1: Configure Wireshark and Generate Network Traffic

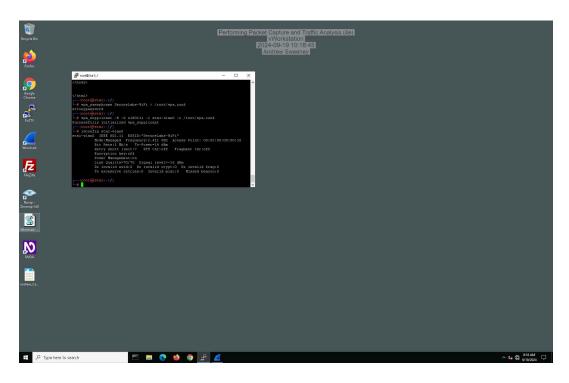
11. Make screen capture showing sta1-wlan0 connected to the SecureLabs-WiFi network.



18. Make a screen capture showing the updated security mode on the Status page.

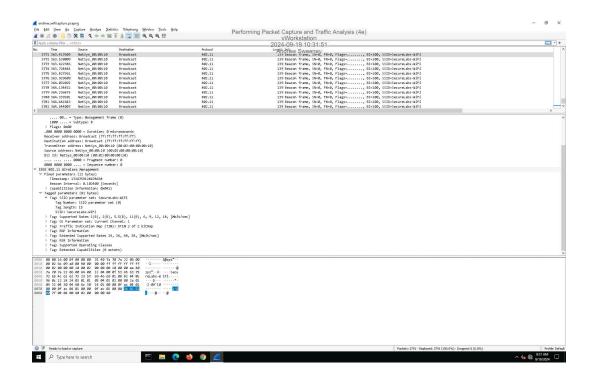


24. Make a screen capture showing the connection to the now-encrypted WLAN.

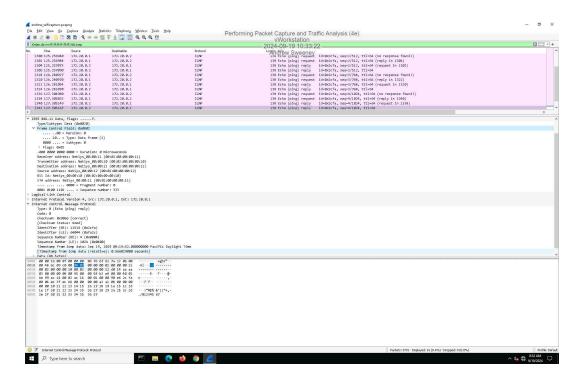


#### Part 2: Analyze Traffic Using Wireshark

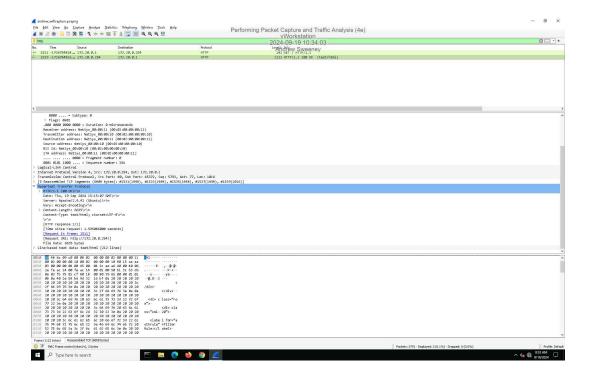
5. Make a screen capture showing the SSID and channel in the Packet Details pane.



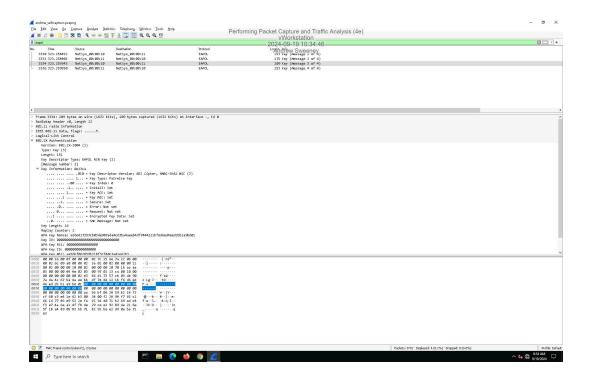
11. Make a screen capture showing the Packet Details for the ICMP packet.



14. Make a screen capture showing the Packet Details for the HTTP packet.



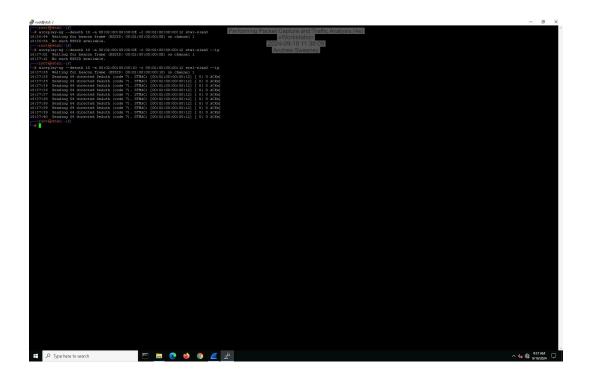
18. Make a screen capture showing the key information for Message 3 in the four-way handshake.



# **Section 3: Challenge and Analysis**

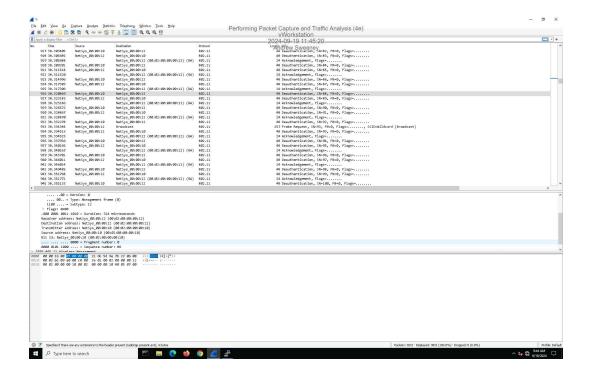
## **Part 1: Generate Malicious Network Traffic**

Make a screen capture showing the aireplay-ng --deauth output.



**Part 2: Analyze Malicious Network Traffic** 

Make a screen capture showing one of the deauth packets that you generated between the BSSID and your selected station.



Make a screen capture showing the packets related to the four-way handshake.

