OLD DOMINION UNIVERSITY

CYSE 301 CYBERSECURITY TECHNIQUES AND OPERATIONS

ASSIGNMENT #6 WI-FI PASSWORD CRACKING

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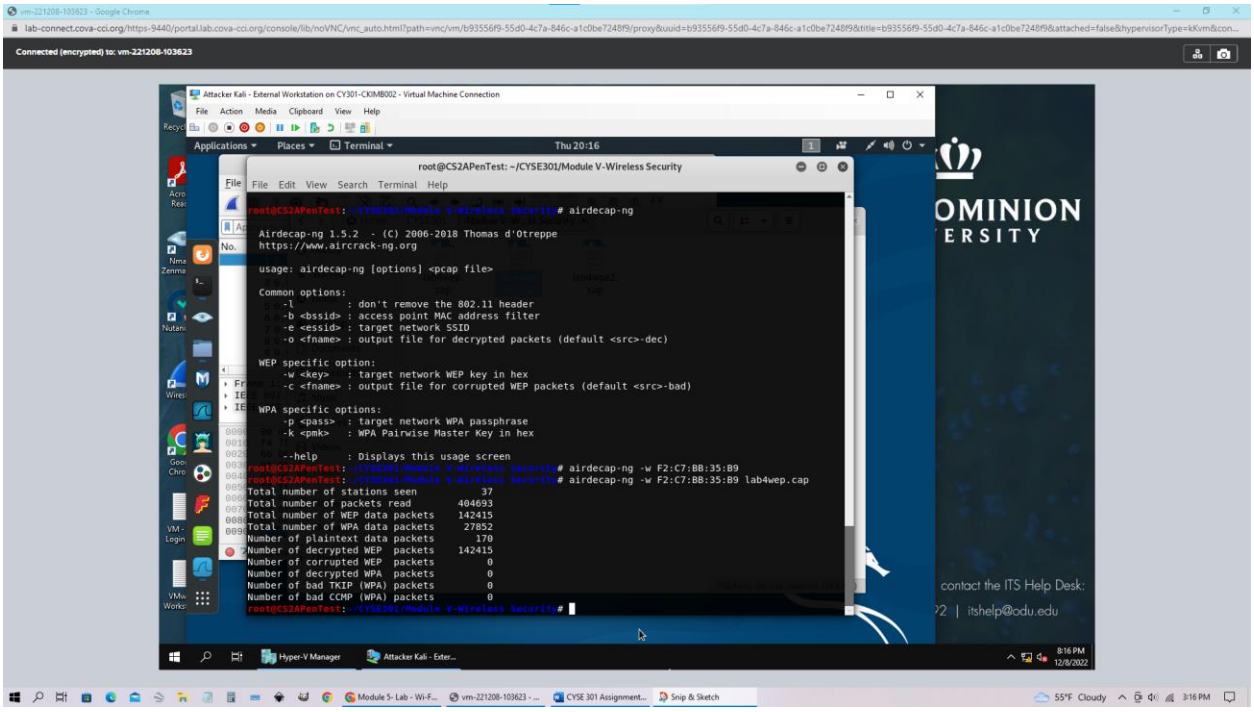
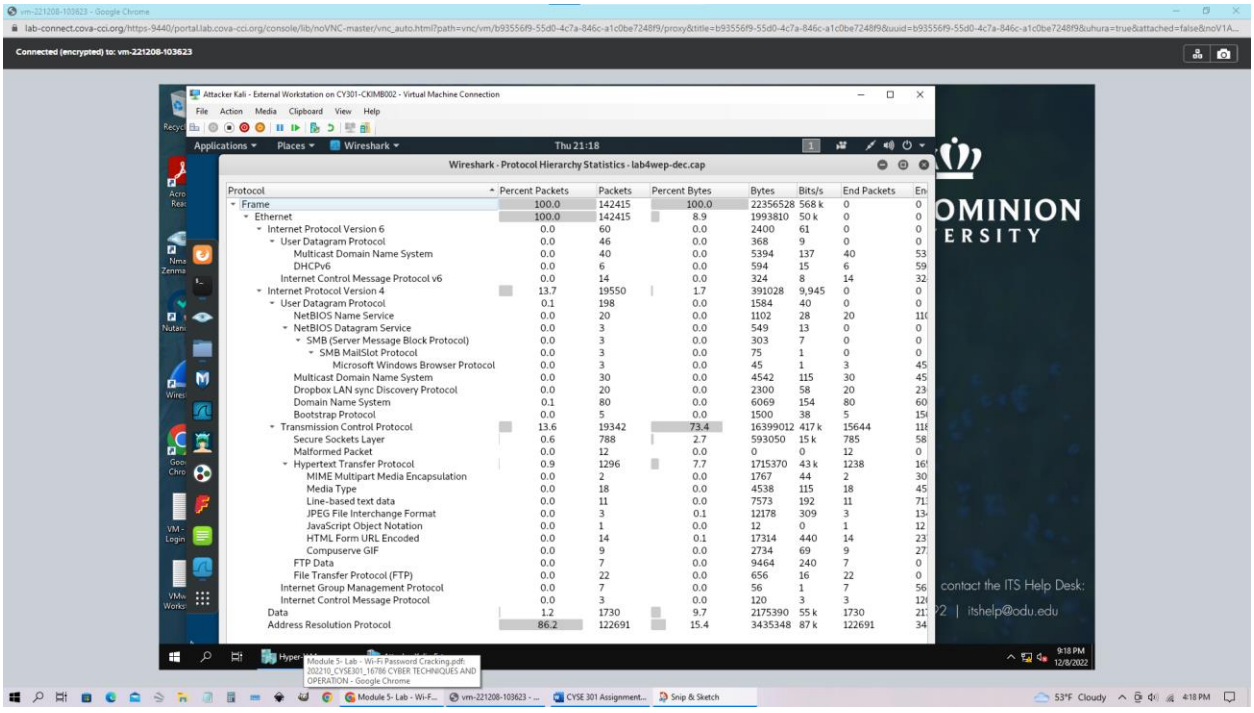
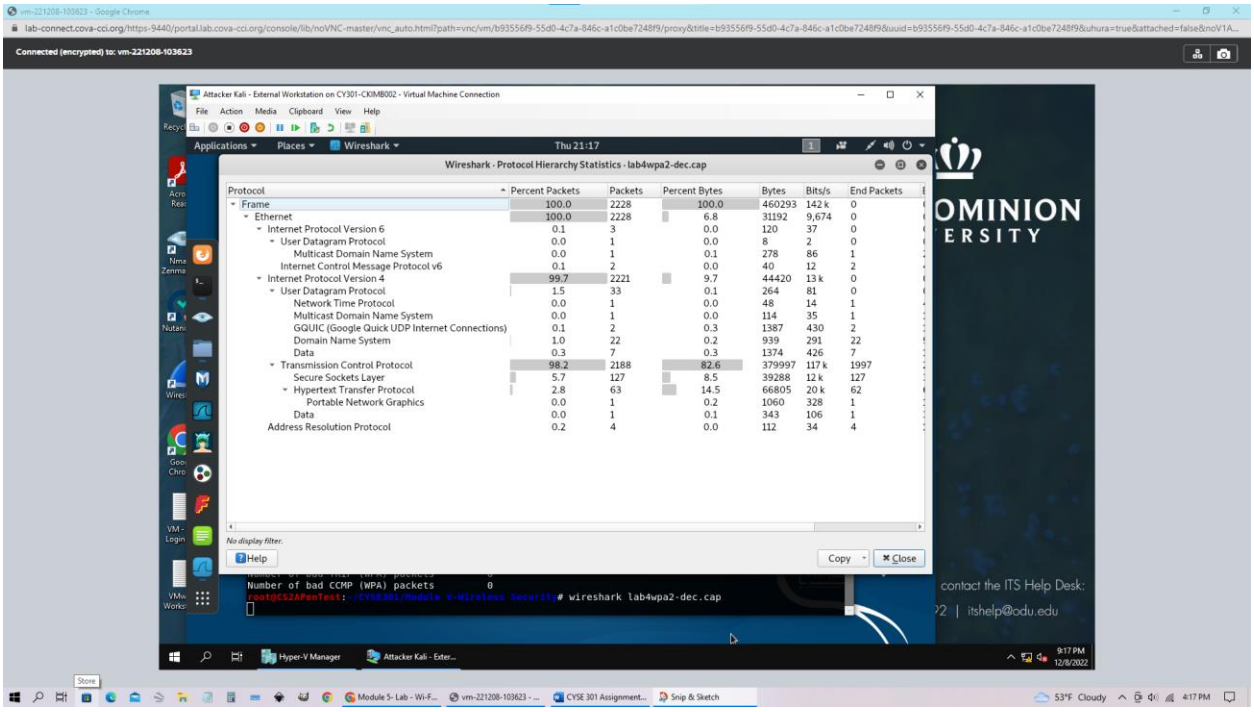
Task A Step 1





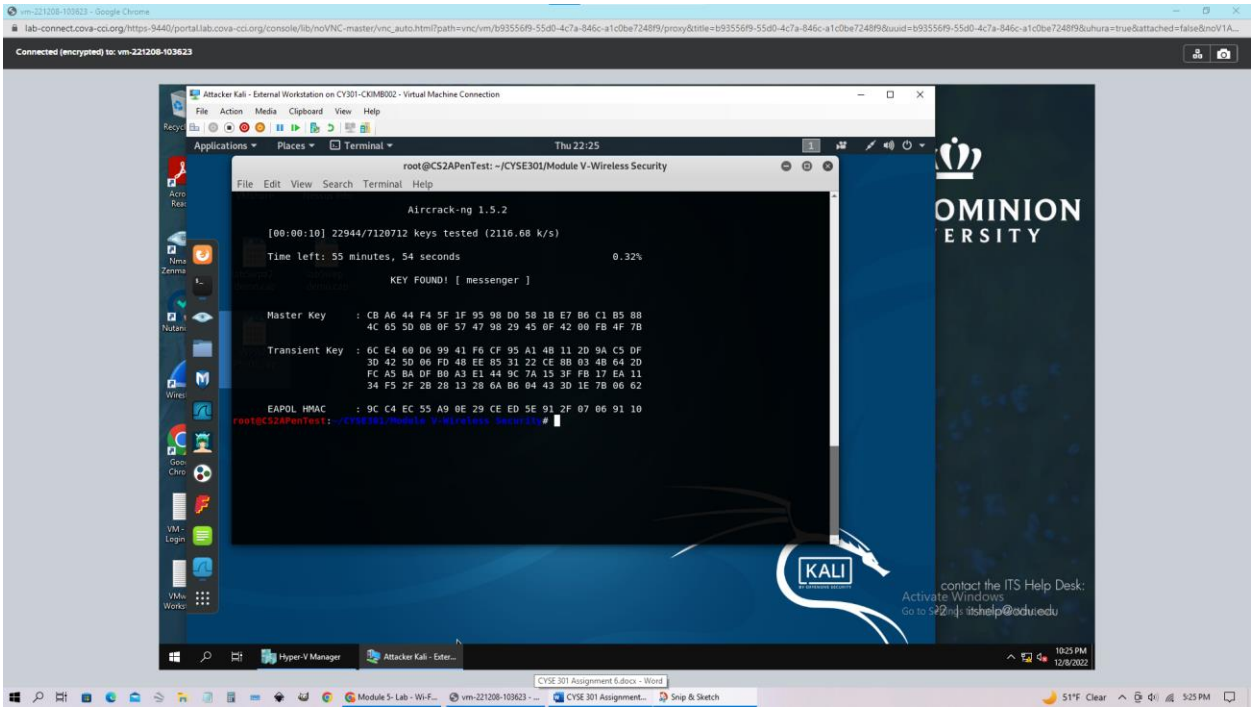
The above screenshots are detailed traffic analyses using aircrack and Wireshark. We can see that many packets are being sent to the target with Wireshark. This indicates that an attacker is trying to inject information into a user's wi-fi system.

Task A Step 2

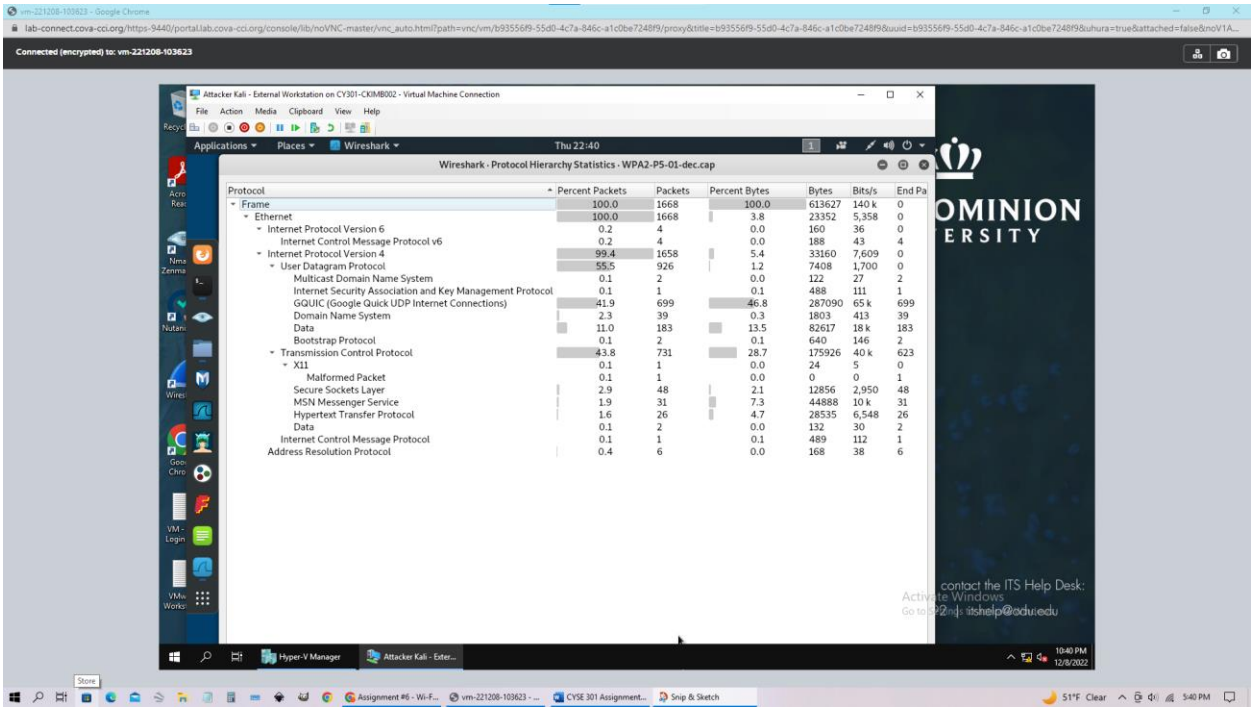


When looking at this protocol hierarchy we can see that there are significantly fewer packets being sent.

Task B Step 1



We were able to find out the password by using a dictionary attack. This was completed by using aircrack-ng followed by the file name then -w with the rockyou.txt file. It shuffled through many potential passwords until it found it using and displaying the [messenger].



When we take a closer look at the traffic analysis, we see that all but ten packets are internet protocol version 4. This indicates that a large majority of the packets were IPv4 based. So we can conclude that whoever was using this was doing many things on the internet.