

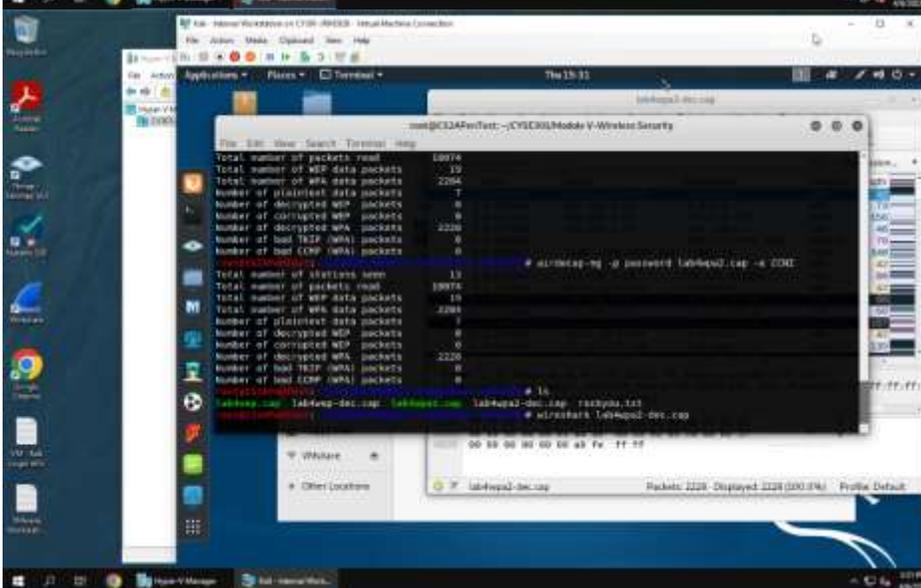
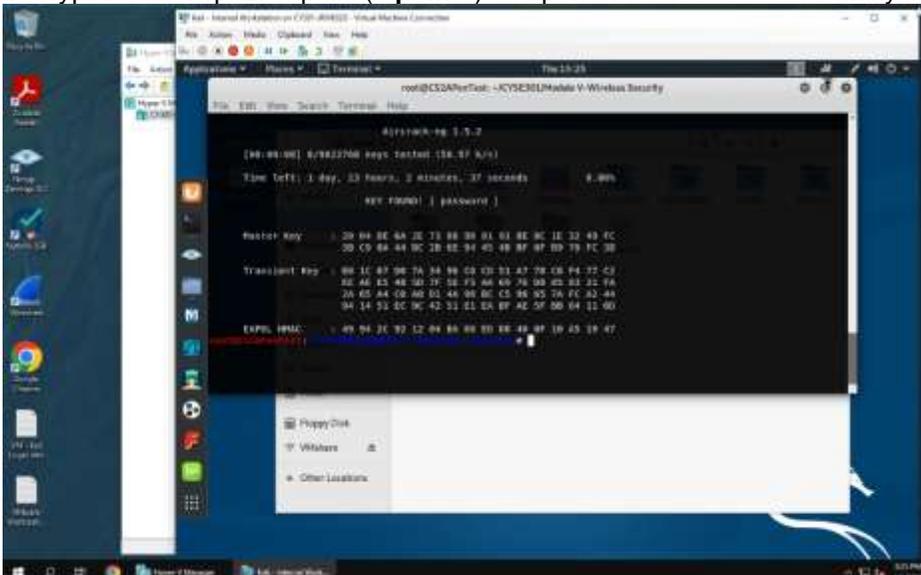
CYSE 301: Cybersecurity Technique and Operations

Assignment: Password Cracking (Part B - Wi-Fi Password Cracking)

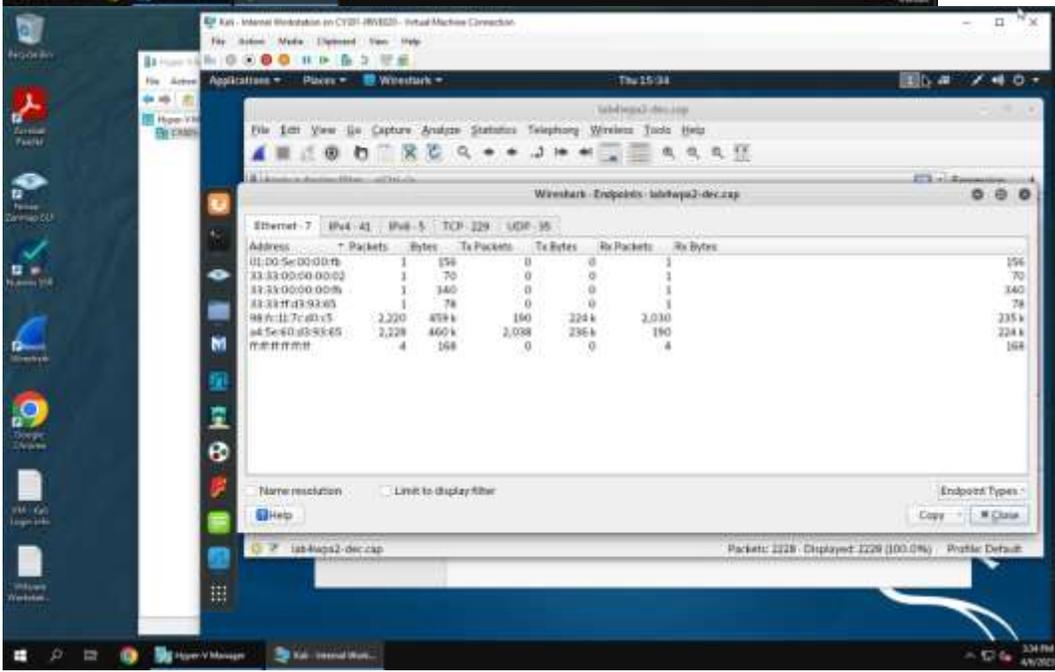
Jason Rivers

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2. Decrypt the lab4wpa2. cap file (5 points) and perform a detailed traffic analysis (5 points)



I followed the directions again, but this time I displayed Endpoints to show I know what I'm doing in Wireshark.



Task D: 30 points

Each student will be assigned a new WPA2 traffic file for analysis. You need to refer to the table below and find the file assigned to you based on the LAST digit of the MD5 of your MIDAS ID. For example, the last digit of the hash for pjiang is **e**. Thus, I should pick up the file "WPA2-P5-01.cap."

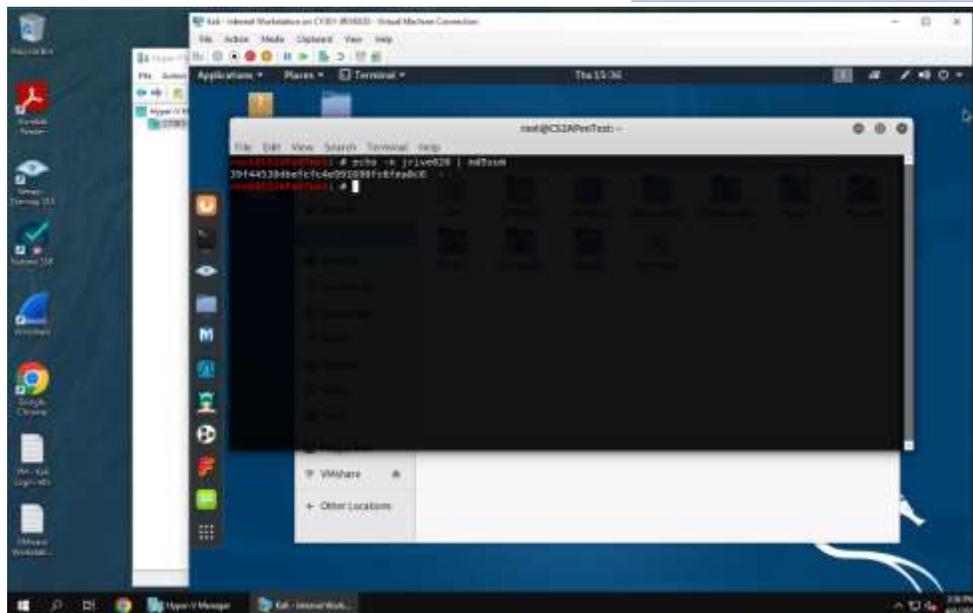
MD5 of **pjiang** is 5a618cdc3edffd8b4c661e7e9b70ce1**e**

You can find an online MD5 hash generator or the following command to get the hash of a text string,

```
root@CS2APenTest: # echo -n pjiang | md5sum
5a618cdc3edffd8b4c661e7e9b70ce1e
```

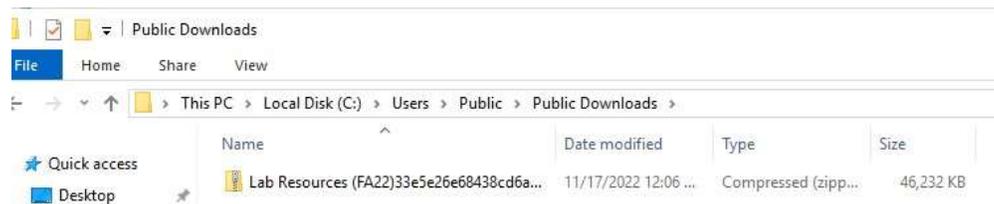
Figure 1 Command to get the MD5 hash.

Last digit of your MD5	Filename
0~3	WPA2-P1-01.cap
4~5	WPA2-P2-01.cap
6~8	WPA2-P3-01.cap
9~B	WPA2-P4-01.cap
C~F	WPA2-P5-01.cap



I'm going to be using WPA2-P3-01.cap

- The above files are zipped in a folder named "Lab Resources." You can locate the zipped folder in the Windows 10 Host Machine under C:/Users/Public/Public Downloads. Then, unzip the following zipped file and find the assigned WPA file under the sub-folder "Wireless Traffic."



- Copy the file assigned to you to the "C:/VMshare" in Windows 10 Host Machine to access it from the Kali VMs (you can use either Kali to complete the assignment).

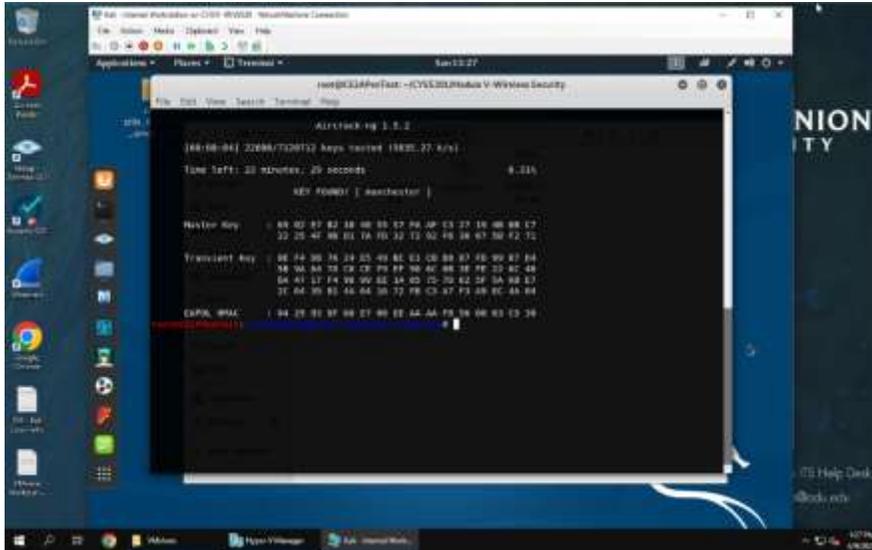


Figure left: Windows Host Machine

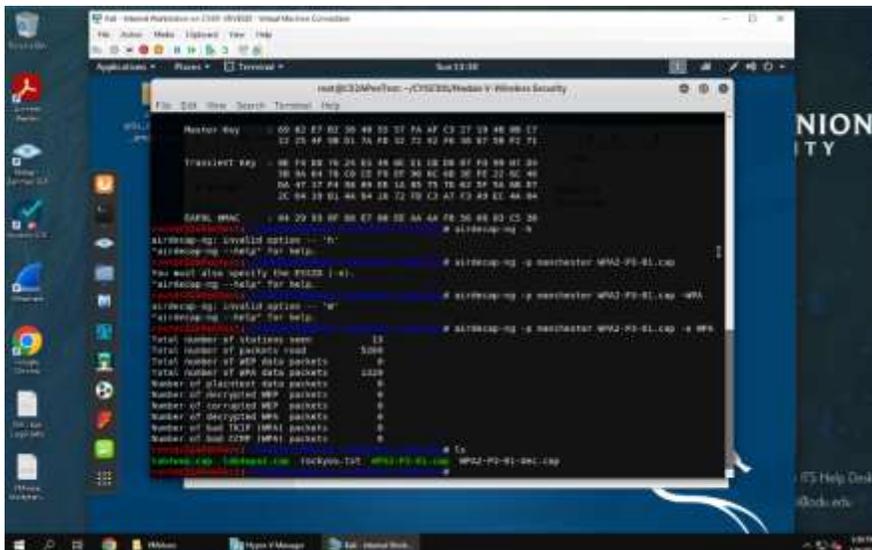
Figure right: VMshare folder on Kali Linux

Then complete the following steps:

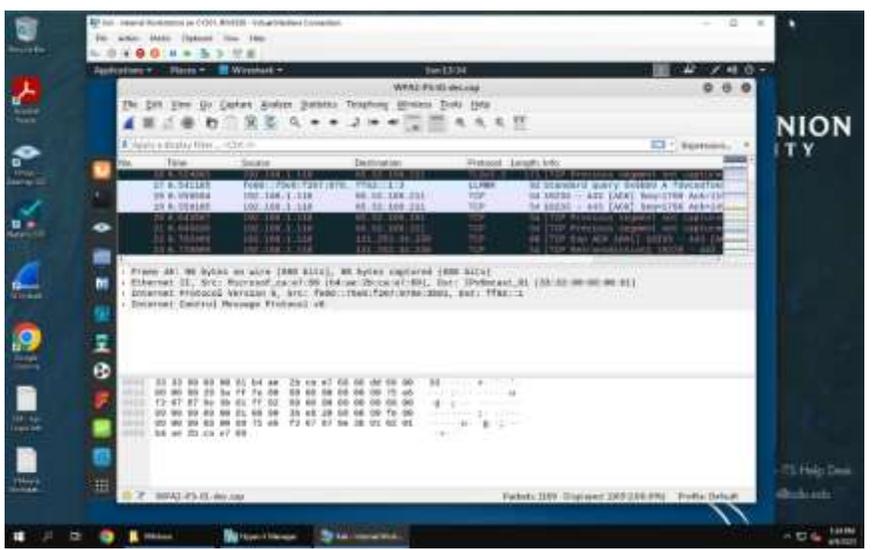
1. Implement a dictionary attack and decrypt the traffic. - 20 points



Dictionary attack using rockyou.txt



Note: I realized my mistake, and went back to change "-e WPA" to using "-e CyberPHY"



- Decrypt the encrypted traffic and write a detailed summary to describe what you have explored from this encrypted traffic file. -10 points

