

# Hacking Wi-Fi In Kali Linux

## 1. List all the available network Interfaces.

The **airmon-ng** tool is used to work with network interfaces. Enter the following command to get the list of all the available network interfaces.

```
airmon-ng
```

*airmon-ng*

## 2. Monitor the desired network interface

The next step is to monitor the wireless network interface, so that we may see all the traffic that passes through the interface. **airmon-ng** command is used for the purpose.

```
airmon-ng start wlan0 1
```

Replace wlan0 with your desired wifi network and 1 with the desired channel number.

## 3. Capture the network interface traffic

Now as we are monitoring our wireless network interface, it's time to capture the traffic. To do so we will use **airodump-ng** tool. Enter the following command to display the captured information.

**Note:** Copy the bssid of the desired network.

```
airodump-ng wlan0mon
```

Replace wlan0mon with the wireless interface which you want to use.

## 4. Capture required data from the specific network

Now, we have to attack a specific network, so in order to do that, we will capture the traffic on that network and will start the capturing of the 4-way handshake. Enter the following command to do that.

```
airodump-ng --bssid 09:98:98:98:98:98 -c 1 --write psk wlan0mon
```

Here, **09:98:98:98:98:98** is the bssid of the network copied from the above step, **-c 1** is the channel number, **psk** is the file in which the captured traffic would be written and **wlan0mon** is the network interface that is being monitored.

**Note:** Do not quit the command being executed in the terminal till the 6th step.

## 5. De authenticate the client

Now, we have to de authenticate the client against the AP in case they're already authenticated. To do so we use **aireplay-ng** command. Enter the following command to de authenticate the client in the new terminal window.

```
aireplay-ng --deauth 100 -a 09:98:98:98:98:98 wlan0mon
```

Here, **09:98:98:98:98:98** is the bssid of the network, **100** is the number of de authenticate frames to be sent and **wlan0mon** is the network interface that is being monitored.

## 6. Verify the captured handshake file.

Now, our handshake file is captured successfully which can be confirmed with the **"ls"** command.

Now our handshake file is successfully captured.

## 7. Stop Wi-Fi interface monitoring

Now, we have successfully captured our handshake file and it's time to get our Wi-Fi interface back to its defaults. Enter the following command to stop monitoring the Wi-Fi interface.

```
airmon-ng stop wlan0mon
```

## 8. Cracking password from the captured handshake file.

Now everything is done it's time to brute force the password. In order to get the password by means of a brute force attack, we need a wordlist and our handshake file. In order to generate a good wordlist use the [crunch utility](#) in Kali Linux or use the one from [predefined wordlists.](#) and after that enter the following command in terminal.

```
aircrack-ng -w wordlist psk*.cap
```

Here,

- **psk\*.cap** : It is the file that has the captured handshake file.
- **wordlist**: It is the wordlist that contains the password to be tested.

It will display the key Found along with the key after successfully cracking the password.