

Kali Linux

> Networking

- 1) To go in Root Terminal \rightarrow `sudo su`
- 2) To go to Monitor Mode \rightarrow `airmon-ng start wlan0`
- 3) To search for Wifi \rightarrow `airodump-ng wlan0`

- To do Target Packet Shifting.

> `airodump-ng --bssid --channel`
I.D CH

-- write test wlan0

\rightarrow File Name

\therefore Where Packets will be stored.

\therefore Use Wireshark \rightarrow To open Packets

- To do deauth attack

`aireplay-ng --deauth 100000 -a`
 \rightarrow How many Packets to send BSSID

- C wlan0

STATION

\downarrow It will disconnect clients from server for a long period.

> It will disconnect all the gadgets which are connected through that Wifi. Now they will need to add the password again for connecting and here packets will be generated and password will be stored.

Spiral

> Wifi Hacking

1) WEP Security Wifi (Busy one)

→ It analyse the captured IVs and crack key.

> aircrack-ng

File Name

∴ Which we made earlier by
Packet Sniffing

∴ file name ending → .cap

> Now it will generate an IP which is
your password to the Wifi.
Now simply, connect the wifi to your
P.C

2) WEP Security Wifi (Non-Busy one)

If network is not busy, so it will
take time to generate or capture IVs.
Solⁿ:- force AP to generate IVs.

Step 1) Fake Authentication Attack

↳ To communicate with it

→ airodump-ng (Command)
to save file.
(Refer Earlier Pages)

you will
get connected
to this
wifi

→ aircrack-ng --fakeauth 30 -a
-h wlan0

→ How many time
you want to do in
every
30
seconds.

BSSID

Mac Address of your
Adapter.

Step 2) ARP Request Replay Attack

∴ To crack WEP
- we need a large no of Packets / IVs.

→ `airplay-ng --arp-replay -b BSSID`
-h MAC address of my adapter wlan0

→ Now type the Command of
`aircrack-ng File Name`

and you will have the Key.

Bonus Point

- To change MAC Address of your Adapter
> `ifconfig wlan0 hw ether New MAC Address`

3) Hacking WPA/WPA2 without a Wordlist (Those Wifi which have W.P.S Button enabled)

Step 1) Search WPS enabled Wifi
`wash --interface wlan0`

on two
diff
Terminal

Step 2) Do a fake auth attack * fix ye

Step 3) Reaver attack (On Diff Terminal) * Pehle ye

↳ It will try every possible pin

`reaver --bssid ID --channel Ch`

`--interface wlan0 --vvv --no-associate`

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It will show
more details

4) Hacking WPA/WPA2 Through Handshake Packets.

↳ These are 4 packets sent when a client connects to the network.

Step 1) `aircrump-ng --bssid ID --channel CH --write wpa-handshake wlan0`

file name where handshake will be captured.

It will be captured when a new client connects to server and it will tell us when it will be captured.

Step 2) Death Attack (To disconnect clients)

↳ Make Death Attack for a short period of time -- death 4

Step 3) The Handshake doesn't contain data that helps recover key, it only contains data that can be used to check if key is valid or not.

We will create a Wordlist.
To do so:- we will use, Crunch.

Syntax:-

> `Crunch [min] [max] [characters] -t [pattern] -o [fileName].txt`

Ex:-

`Crunch 6 8 abc12 -o test.txt`

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↳ where it will be stored

→ To open this file

> cat test.txt

↳ File Name

> To make specific list

> crunch 66 abc12 -o test.txt -t a@@@b

It will make

Only those password which
start with a and end with
b.

Step 4) Cracking WPA/WPA 2 using a Wordlist
Attack.

> aircrack-ng wpa_ handshake-01.cap

-w test.txt

↳ Handshake file

↳ Wordlist file.

Both will be compared to get
Correct MIC.

→ Now Key will be founded.

Date.....

> Configuring Wireless Settings for Maximum Security

- 1) you can change your adapter IP Address as discussed earlier.
- 2) Can change Wifi Adapter Security by going into setting and by making a complex Pin.
- 3) Switch off WPS Button for Maximum Security.