Day 13 of Learning Cyber Security

Platform: Kali Linux

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Topic: Wi-Fi Hacking

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Wi Fi: Aircrack-ng Suite

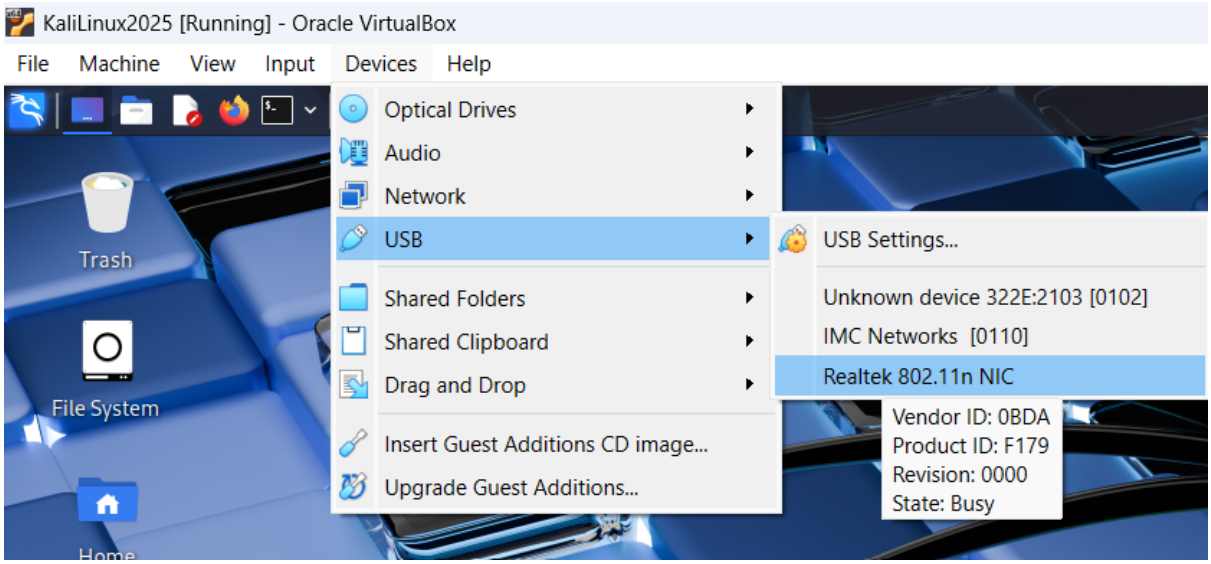
Disclaimer: ⚠ This documentation is intended solely for educational and ethical hacking purposes.

Do not deploy these techniques on networks you do not own or have explicit permission to test.

Unauthorized deauthentication attacks are illegal and violate usage policies.

Initial Setup

For this activity, you need a Wi Fi adapter. After connecting it with laptop/computer enable it on kali linux.



Verify Connectivity:

Command 1:

```
┌──(ayeshanadeem㉿ayeshanadeem)-[~/rtl8188fu]
└─$ iwconfig
lo        no wireless extensions.

eth0      no wireless extensions.

wlan0     IEEE 802.11  ESSID:off/any
          Mode:Managed  Access Point: Not-Associated   Tx-Power=20 dBm
          Retry short limit:7   RTS thr=2347 B   Fragment thr:off
          Power Management:off
```

Command 2:

```
┌──(ayeshanadeem㉿ayeshanadeem)-[~]
└─$ sudo ifconfig wlan0 down
```

Command 3:

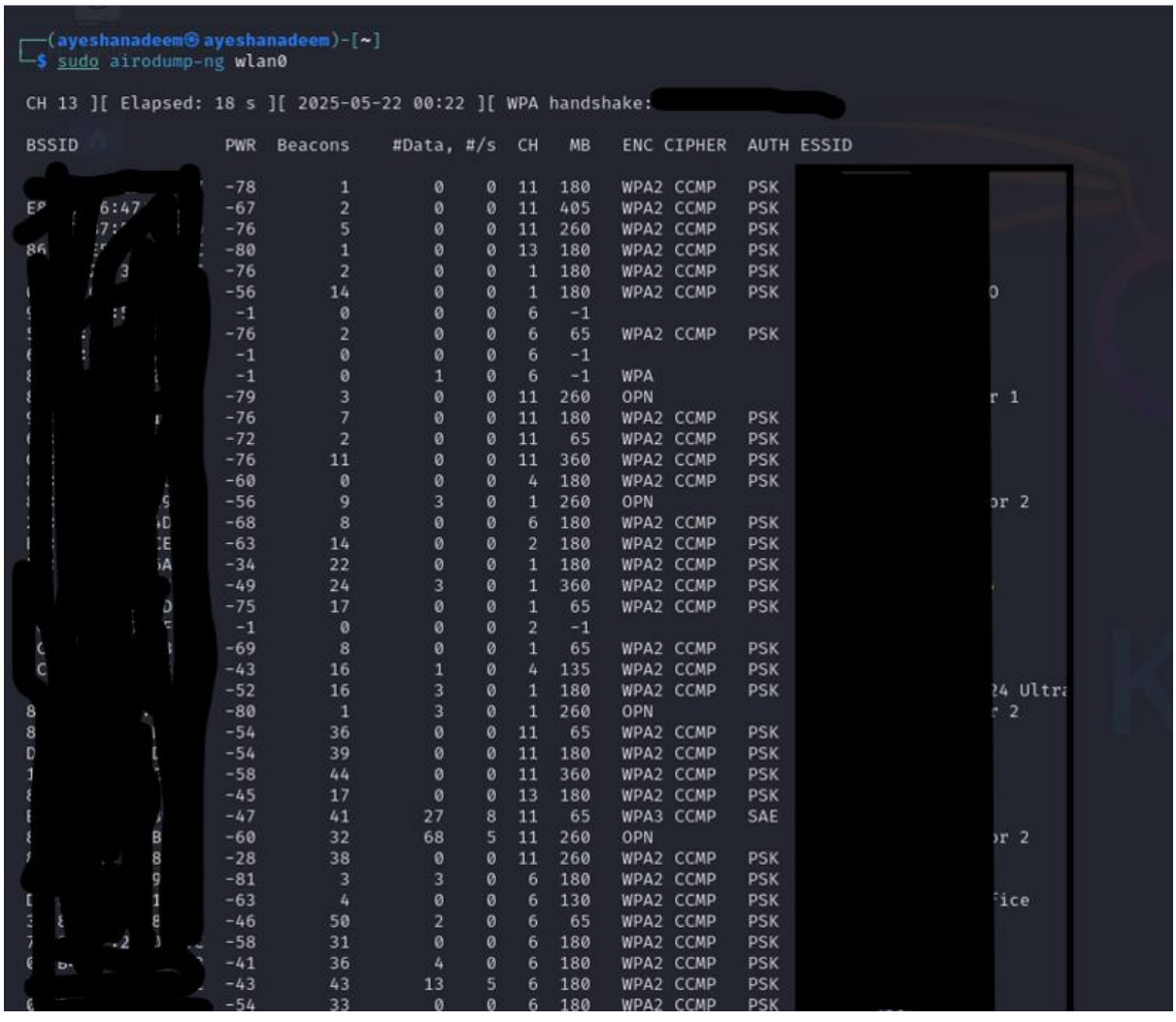
```
┌──(ayeshanadeem㉿ayeshanadeem)-[~]
└─$ sudo iwconfig wlan0 mode monitor
```

Command 4:

```
┌──(ayeshanadeem㉿ayeshanadeem)-[~]
└─$ sudo ifconfig wlan0 up
```

Wi Fi reconnaissance:

Command 5:

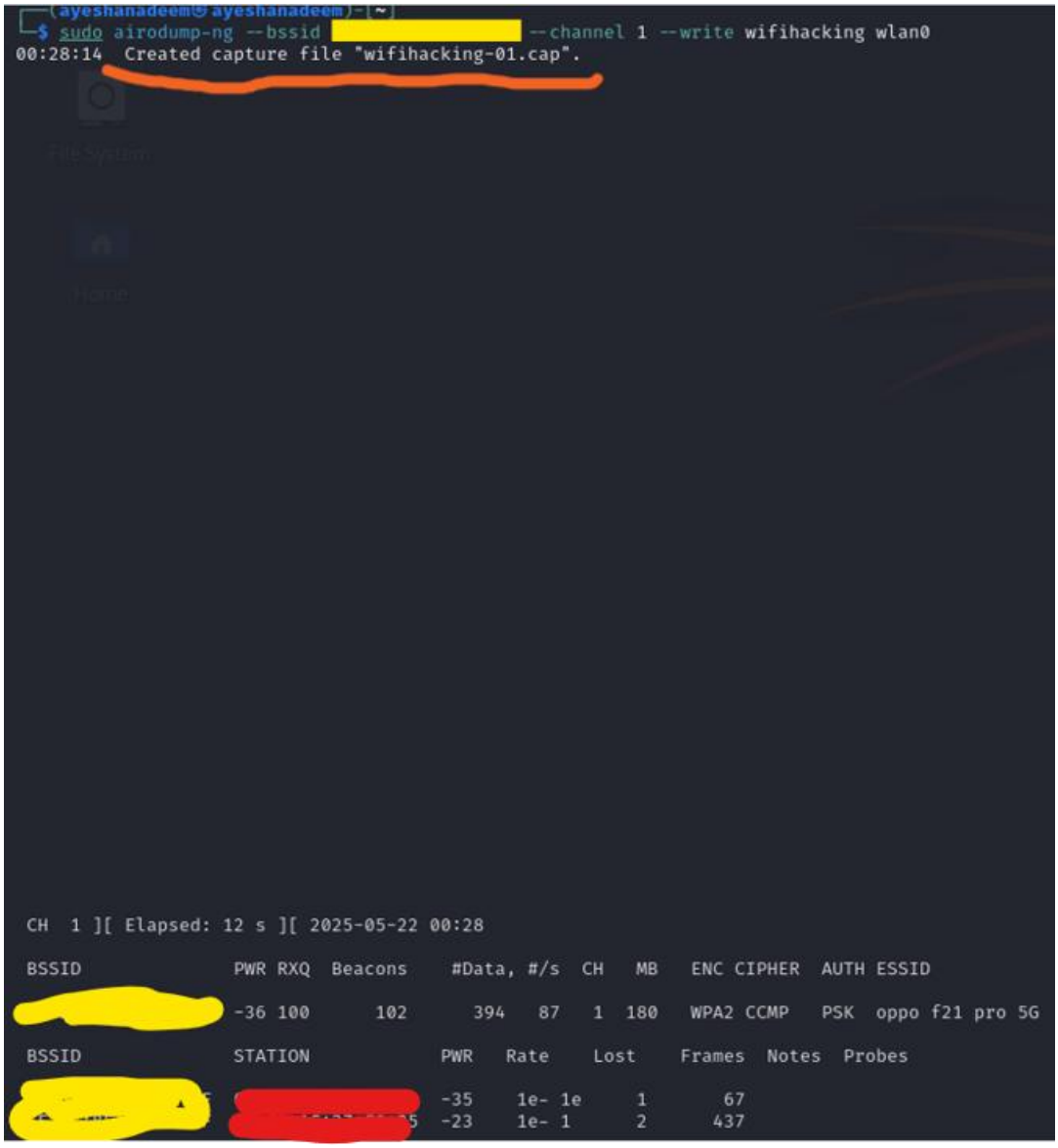


Fetch the BSSID of only confidential (own)device.

Capture Hand Shake channel

Command 6:

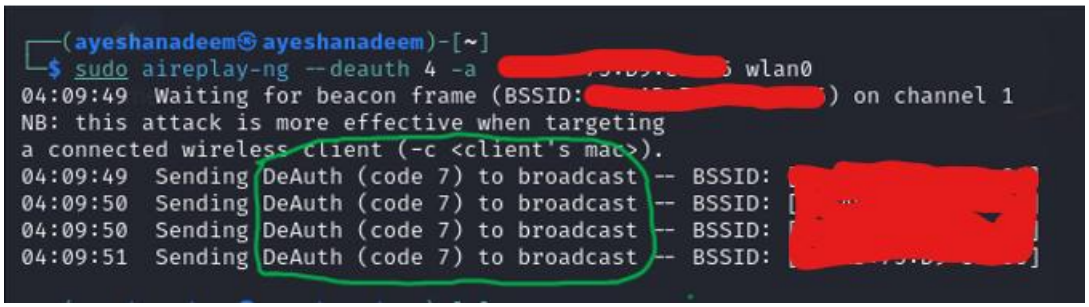
Command 7:



DeAuth Packet

It terminates the connection between a client and an access point (AP).

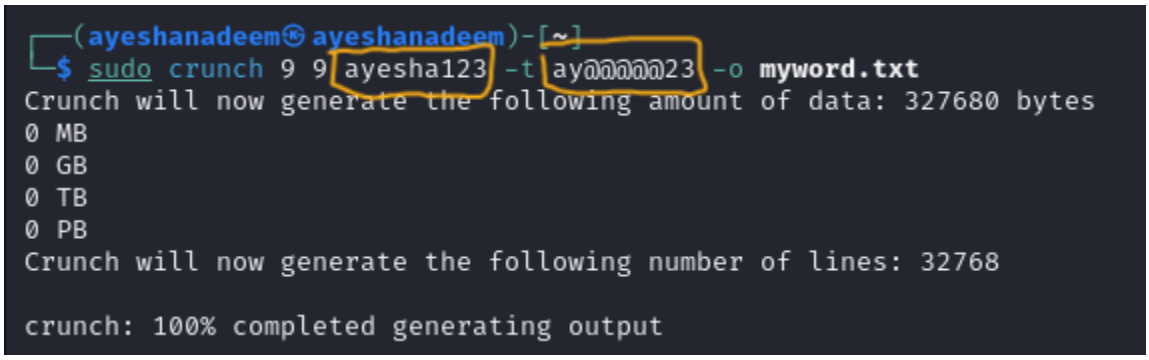
Command 8:



Guessing Password

Command 9:

By creating own password.txt file

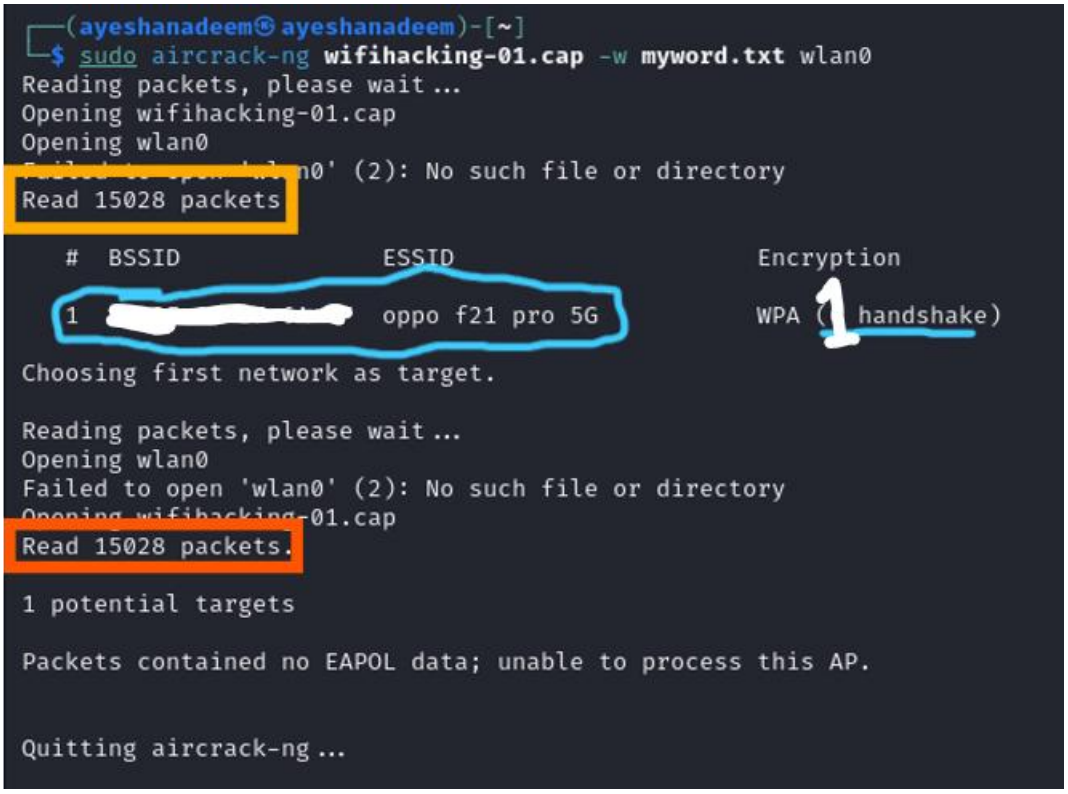


What it do?

It generate a file having exactly 9 characters. It's all words start with constant alphabet "ay", and ending on constant number "23". In middle there are any combination of character, numeric, and symbols

Output file is named as word.txt with 32,768 lines

Command 10:



Command 11:

By using john the ripper password file word.txt