

WPA3 Reconnaissance

Objective

Install the latest version of aircrack-ng from source-code and identify the SSID of an active WPA3 type Access Point.

After successful identification, verify the SSID name via Verify Flags section.

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Step 1 - Install Dependencies

Aircrack-ng v1.6 is available on your Desktop. Extract the tar.gz file, install dependencies and compile the aircrack-ng suite of tools.

As an alternative you can also download the aircrack-ng Github repo: <a href="https://github.com/aircrack-ng/aircr

apt update

apt-get install build-essential autoconf automake libtool pkg-config libnl-3-dev libnl-genl-3-dev libssl-dev ethtool shtool rfkill zlib1g-dev libpcap-dev libsqlite3-dev libpcre3-dev libhwloc-dev libcmocka-dev hostapd wpasupplicant tcpdump screen iw usbutils

Step 3 - Extract aircrack-ng source

Extract aircrack-ng source code

cd /root/Desktop
tar zxvf aircrack-ng.tar.gz
cd aircrack-ng/

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Step 4 - Configure source

```
autoreconf -i
libtoolize: putting auxiliary files in AC_CONFIG_AUX_DIR, '.'.
libtoolize: copying file './ltmain.sh'
libtoolize: putting macros in AC_CONFIG_MACRO_DIRS, 'build/m4/stubs'.
libtoolize: copying file 'build/m4/stubs/libtool.m4'
libtoolize: copying file 'build/m4/stubs/ltoptions.m4'
configure.ac:58: installing './config.guess'
configure.ac:58: installing './config.sub'
parallel-tests: installing './test-driver'
< - - - SNIP - - - >
```

Configure the project for building with the appropriate options specified for your environment

```
./configure
```

Step 5 - Compile binaries

Compile the binaries from the configured source code.

```
make && make check
```

Note that this will not install aircrack-ng on your Kali machine. This will only compile the binaries in the aircrack-ng current working directory.

Step 6 - Detect WPA3 Network

```
./airodump-ng wlan0
CH 12 ][ Elapsed: 0 s ][ 2019-11-27 14:46 ][ paused output
BSSID
                 PWR Beacons
                                #Data, #/s CH MB ENC CIPHER AUTH ESSID
 F4:8C:EB:12:A2:78 -48
                                           1 130
                                                    WPA2 CCMP PSK Saikat
                           4
                                   0
                                        0
                                              54e. WPA2 CCMP PSK TP-LINK_7D4E
C4:E9:84:FD:7D:4E -48
                          15
                                   0
                                        0
                                           1
                          10
 08:86:3B:D1:8B:9D -48
                                   0
                                        0
                                           1
                                              135
                                                    WPA2 CCMP
                                                              PSK Old Trafford
                                                    WPA2 CCMP
 B8:C1:AC:A2:02:95 -48
                          30
                                   0
                                        0
                                           1 270
                                                              PSK Airtel_7290996555
                                   0
 2C:30:33:20:6B:68 -48
                          63
                                        0 1 130
                                                   WPA2 CCMP PSK Ghosh
13:44:EF:ED:3F:FA -28
                          35
                                        0 1 54 WPA3 CCMP SAE TARGET_Network
BSSID
                 STATION
                                   PWR Rate
                                               Lost
                                                      Frames Notes Probes
```

airodump-ng now detects WPA3 network. Follow the steps above and verify the SSID you see corresponding to your WPA3 network according to the scan output.

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Step 7 - Verify Flags

Go to Verify Flags section on the lab details page, enter the WPA3 Network's SSID then hit Verify.

