Aircrack-ng

Static WEP cracking options

-c	search alpha-numeric characters only
-t	search binary coded decimal chr only
-h	search the numeric key for Fritz!BOX
-d <mask>	use masking of the key (A1:XX:CF:YY)
-m <maddr	MAC address to filter usable packets
-n <nbits>	WEP key length : 64/128/152/256/512
-i <index>	WEP key index (1 to 4), default: any
-f <fudge>	bruteforce fudge factor, default: 2
-k <korek>	disable one attack method (1 to 17)
-x or -x0	disable bruteforce for last keybytes
-x1	last keybyte bruteforcing (default)
-x2	enable last 2 keybytes bruteforcing
-X	disable bruteforce multithreading
-y	experimental single bruteforce mode
-K	use only old KoreK attacks (pre-PTW)
-s	show the key in ASCII while cracking
-M <num>	specify maximum number of IVs to use
-D	WEP decloak, skips broken keystreams
-P <num>	PTW debug: 1: disable Klein, 2: PTW
-1	run only 1 try to crack key with PTW
-V	run in visual inspection mode

WEP and WPA-PSK cracking options

-w <words>	path to wordlist(s) filename(s)
-N <file>	path to new session filename
-R <file>	path to existing session filename

Other options

-u	Displays # of CPUs & SIMD support
--help	Displays this usage screen

Common options

-a <amode>	force attack mode (1/WEP, 2/WPA-PSK)
-e <essid>	target selection: network identifier
-b <bssid>	target selection: access point's MAC
-p <nbcpu>	# of CPU to use (default: all CPUs)
-q	enable quiet mode (no status output)
-C <macs>	merge the given APs to a virtual one
-l <file>	write key to file. Overwrites file.

WPA-PSK options

-E <file>	create EWSA Project file v3
-I <str>	PMKID string (hashcat -m 16800)
-j <file>	create Hashcat v3.6+ file (HCCAPX)
-J <file>	create Hashcat file (HCCAP)
-S	WPA cracking speed test
-Z <sec>	WPA cracking speed test length of execution.
-r <DB>	path to airolib-ng database (Cannot be used with -w)

SIMD selection

--simd-list	Show a list of the available SIMD architectures, for this machine.
--simd=<option>	Use specific SIMD architecture.
platform	generic
	avx512
	avx2
	avx
	sse2
	altivec
	power8
	asimd
	neon