

WI-FI PASSWORD CRACKING TECHNIQUES CHEAT SHEET

The Traditional WPA Attack

Command	Description
sudo airmon-ng start wlan0	Enable monitor mode
sudo airodump-ng wlan0mon -c 1 -w WPA	Scan for Wi-Fi networks and associated clients
sudo aireplay-ng -0 5 -a 80:2D:BF:FE:13:83 -c 8A:00:A9:9B:ED:1A wlan0mon	Launch a deauthentication attack
cowpatty -c -r WPA-01.cap	Validate whether a proper WPA handshake was captured
<pre>cowpatty -r WPA-01.cap -f /opt/wordlist.txt -s HackTheBox</pre>	Retrieve the WPA-PSK from a captured handshake (cowpatty)
aircrack-ng WPA-01.cap -w /opt/wordlist.txt	Retrieve the WPA-PSK from a captured handshake (aircrack-ng)
./wpapcap2john WPA-01.pcap > hash	Parse the 4Way-Handshake to produce a hash (JtR format)

Command	Description
<pre>john hash wordlist=/usr/share/wordlists/rockyou.txt format=wpapsk</pre>	Crack the WPA hash (JtR)
hcxpcapngtool -o hash WPA-01.pcap	Parse the 4Way-Handshake to produce a hash (Hashcat format)
hashcat -m 22000force hash wordlist.txt	Crack the WPA hash (Hashcat)

Using Hashcat

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Command	Description
hashcat -I	Identify available CPU and GPU devices
hashcat -m 22000 hash wordlist.txt -D 1 -d 2	CPU based cracking, using device number 2
hashcat -m 22000 hash wordlist.txt -D 2 -d 8	GPU based cracking, using device number 8
hashcat -m 22000 hash wordlist.txt -w 3	Workload level 3
hashcat -m 22000 hash wordlist.txt -O	Optimized kernel
hashcat -m 22000 hash wordlist.txt -D 1cpu-affinity=1,2,3,4	Bind to specific CPU cores
hashcat -m 22000 hash wordlist.txt -D 1cpu- affinity=1,2,3,4hook-threads=8	Control number of threads
hashcat -m 22000 hash wordlist.txt -D 1,2 -d 1,2	Use GPU and CPU simultaneously
hashcat -m 22000 hash wordlist.txt -r /usr/share/hashcat/rules/TOXLC.rule	Apply a rule file to the wordlist

Rule Operation	Description
С	Capitalize the first character, lowercase the rest
С	Lowercase the first character, uppercase the rest
t	Toggle the case of all characters in word
Т2	Toggle the case of characters at position 3
\$1	Append 1 to the end
^1	Prepend 1 to the front
r	Reverse the word
sa@	Substitute a with @
d	Duplicate the word
z 5	Duplicate first character 5 times
Z5	Duplicate last character 5 times

Mask	Description
?1	Lower-case ASCII letters
?u	Upper-case ASCII letters
?d	Digits
?h	Digits with lower-case ASCII letters
?Н	Digits with upper-case ASCII letters
?s	Special characters
?a	Combination of ?I, ?u, ?d and ?s
?b	All possible byte values

Generating Credentials

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Command	Description
<pre>grep -i "9C-C9-EB" /var/lib/ieee- data/oui.txt</pre>	Manufacturer lookup
<pre>python3 NPCinator.py > passwords.txt</pre>	Generate Netgear passwords
wpspin D4:BF:7F:EB:29:D2	Generate the default WPS PIN for a given ESSID
wpspin -A D4:BF:7F:EB:29:D2	Generate a variety of WPS PINs for a given ESSID
cupp -i	Launch CUPP in interactive mode
cewl http://logistics.local -d 4 -m 8 -w inlane.wordlist	Generate a wordlist based on crawled website information (crawl depth 4, minimum length 8)
./username-anarchy David Smith	Generate a list of possible username permutations

Command	Description
./username-anarchylist-formats	List available username formats
./username-anarchycountry franceauto	Generate usernames that follow a country-specific naming convention
./username-anarchyrecognise j.smith	Identify the username format

Miscellaneous Attacks

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Command	Description
<pre>grep -i "9C-C9-EB" /var/lib/ieee-data/oui.txt</pre>	Manufacturer lookup
<pre>genpmk -f /opt/rockyou.txt -d /tmp/hashtable -s HackTheBox</pre>	Generate a precomputed hash table
<pre>johnformat=Raw-SHA256 wordlist=/opt/rockyou.txt hash</pre>	Crack a Cisco Type 4 password hash (JtR)
hashcat -m 5700 -O -a O hash /usr/share/wordlists/rockyou.txt	Crack a Cisco Type 4 password hash (Hashcat)
<pre>johnformat=md5cryptfork=4 wordlist=/opt/rockyou.txt hash</pre>	Crack a Cisco Type 4 password hash (JtR)
hashcat -m 500 -O -a O hash /usr/share/wordlists/rockyou.txt	Crack a Cisco Type 5 password hash (Hashcat)
python ciscot7.py -d -p 08116C5D1A0E550516	Decrypt a Cisco Type 7 password
<pre>johnformat=pbkdf2-hmac-sha256fork=4 wordlist=/opt/rockyou.txt hash</pre>	Crack a Cisco Type 8 password hash (JtR)
hashcat -m 9200 -a 0 hash /usr/share/wordlists/rockyou.txt	Crack a Cisco Type 8 password hash (Hashcat)
<pre>johnformat=scryptfork=4 wordlist=/opt/rockyou.txt hash</pre>	Crack a Cisco Type 9 password hash (JtR)

hashcat -m 9300 -a 0 force hash /usr/share/wordLists/rockyou.txt Crack a Cisco Type 9 password hash (Hashcat)	Command		Description	
	hashcat -m 93 /usr/share/wo	00 -a 0force hash rdlists/rockyou.txt	Crack a Cisco Type 9 password hash (Hashcat)	ini:
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