

Krok 1: odwrócenie hasha WPA. albo poprzez domyślny wordlist w Kali albo najprostszą maskę ?d?d?d?d?d?d?d?d w hashcat -m2500 po wcześniejszym eksporcie handshake.

Klasyka podpowiada zwykły aircrack-ng:)

```
root@kali: ~
File Edit View Search Terminal Help
root@kali:~# aircrack-ng -w '/usr/share/wordlists/rockyou.txt' '/root/Downloads/CTF_WiFi.cap'
```

```
root@kali: ~
File Edit View Search Terminal Help

Aircrack-ng 1.5.2

[00:04:17] 339324/9822768 keys tested (1265.06 k/s)

Time left: 2 hours, 4 minutes, 56 seconds 3.45%

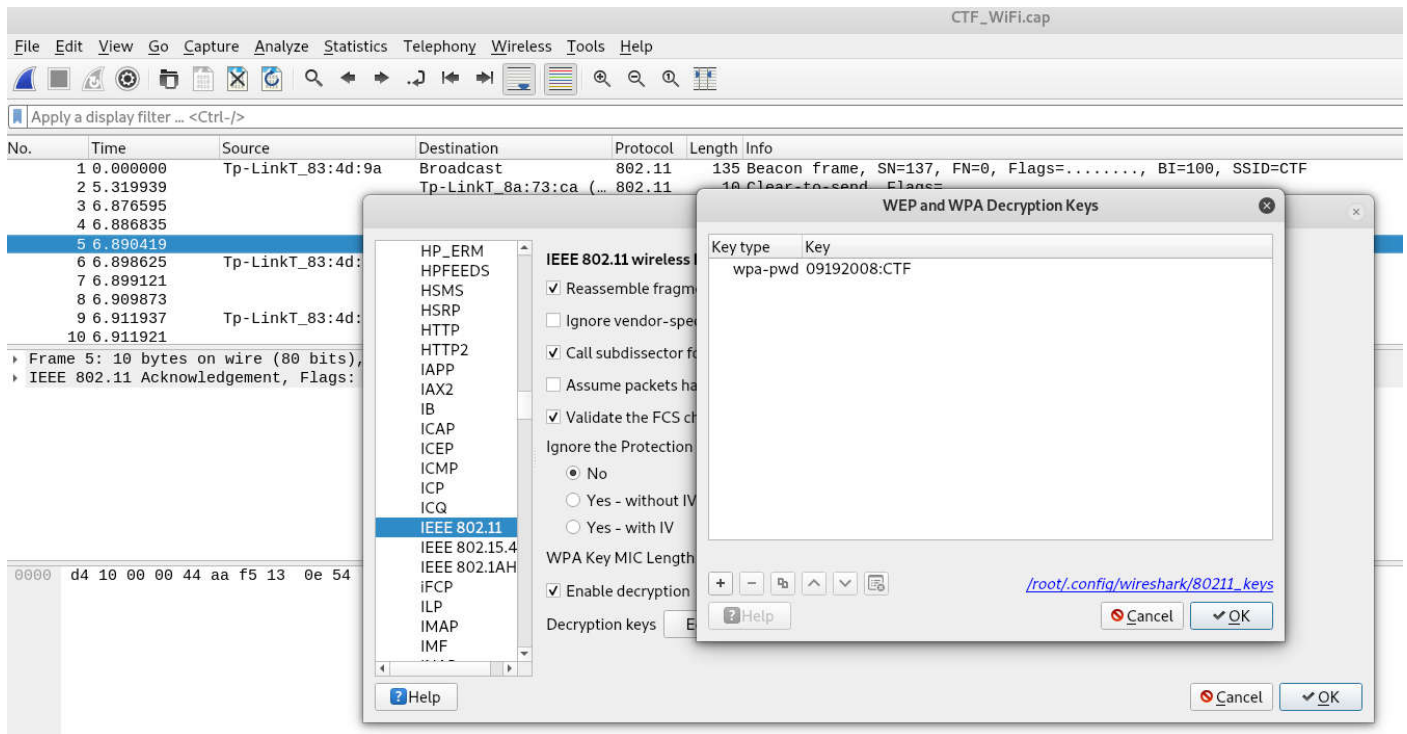
KEY FOUND! [ 09192008 ]

Master Key      : 33 77 BF 99 26 25 07 D1 F4 9E A7 0B 35 8D 65 8F
                  78 59 20 D0 0C 05 18 F3 7E 2E 58 8A BB C4 82 10

Transient Key   : 03 36 24 D1 FB 3F 48 90 99 D9 6E EF 29 B9 BD 9F
                  96 C3 45 9C 83 D0 5E F7 D1 7E 0E 02 69 9A 4B 5C
                  36 94 D4 66 20 16 12 5C 30 5D 0A 92 0D 75 63 7A
                  44 CC 15 6D AA 23 9B 34 BC 84 64 D2 1D 6B EE CE

EAPOL HMAC     : 75 0A 9C 21 0D 8E F8 8C 5B 04 1F 17 1E BA E3 76
root@kali:~#
```

Krok 2: odszyfrowanie ruchu wersja A



Krok 2: odszyfrowanie ruchu wersja B:

```
root@kali:~# airdecap-ng -e CTF -p 09192008 CTF_WiFi.cap
Total number of stations seen          7
Total number of packets read          1000
Total number of WEP data packets       0
Total number of WPA data packets      401
Number of plaintext data packets       0
Number of decrypted WEP packets        0
Number of corrupted WEP packets        0
Number of decrypted WPA packets       314
Number of bad TKIP (WPA) packets       0
Number of bad CCMP (WPA) packets       0
root@kali:~#
```

Krok 3: odnalezienie zawartości w ruchu ftp

	Time	Source	Destination	Protocol	Length	Info
172	38.798801	192.168.1.195	192.168.1.1	TCP	66	1548 → 26621 [SYN] Seq=0 Win=8192 Len=0 MSS=1460 WS=256 SACK_PERM=1
173	38.799301	192.168.1.1	192.168.1.195	TCP	66	26621 → 1548 [SYN, ACK] Seq=0 Ack=1 Win=29200 Len=0 MSS=1460 SACK_PERM=1
174	38.800848	192.168.1.195	192.168.1.1	TCP	54	1548 → 26621 [ACK] Seq=1 Ack=1 Win=17408 Len=0
175	38.802384	192.168.1.195	192.168.1.1	TCP	54	[TCP Window Update] 1548 → 26621 [ACK] Seq=1 Ack=1 Win=4194304 Len=0
177	38.812624	192.168.1.195	192.168.1.1	FTP-D...	1514	FTP Data: 1460 bytes (PASV) (STOR CTF2019.jpg)
178	38.814672	192.168.1.195	192.168.1.1	FTP-D...	1514	FTP Data: 1460 bytes (PASV) (STOR CTF2019.jpg)
179	38.815173	192.168.1.1	192.168.1.195	TCP	54	26621 → 1548 [ACK] Seq=1 Ack=1461 Win=32120 Len=0
180	38.815686	192.168.1.1	192.168.1.195	TCP	54	26621 → 1548 [ACK] Seq=1 Ack=2921 Win=35040 Len=0
181	38.817233	192.168.1.195	192.168.1.1	FTP-D...	1514	FTP Data: 1460 bytes (PASV) (STOR CTF2019.jpg)
182	38.818258	192.168.1.195	192.168.1.1	FTP-D...	1514	FTP Data: 1460 bytes (PASV) (STOR CTF2019.jpg)
183	38.818757	192.168.1.1	192.168.1.195	TCP	54	26621 → 1548 [ACK] Seq=1 Ack=1461 Win=32120 Len=0
184	38.818769	192.168.1.195	192.168.1.1	FTP-D...	1514	FTP Data: 1460 bytes (PASV) (STOR CTF2019.jpg)
185	38.818769	192.168.1.195	192.168.1.1	FTP-D...	1514	FTP Data: 1460 bytes (PASV) (STOR CTF2019.jpg)
186	38.819269	192.168.1.1	192.168.1.195	TCP	54	26621 → 1548 [ACK] Seq=1 Ack=1461 Win=32120 Len=0
187	38.819793	192.168.1.195	192.168.1.1	FTP-D...	1514	FTP Data: 1460 bytes (PASV) (STOR CTF2019.jpg)
188	38.820817	192.168.1.195	192.168.1.1	FTP-D...	1514	FTP Data: 1460 bytes (PASV) (STOR CTF2019.jpg)
189	38.821841	192.168.1.195	192.168.1.1	FTP-D...	1514	FTP Data: 1460 bytes (PASV) (STOR CTF2019.jpg)
190	38.821841	192.168.1.195	192.168.1.1	FTP-D...	1514	FTP Data: 1460 bytes (PASV) (STOR CTF2019.jpg)
191	38.829509	192.168.1.1	192.168.1.195	TCP	54	26621 → 1548 [ACK] Seq=1 Ack=1461 Win=32120 Len=0
192	38.830533	192.168.1.1	192.168.1.195	TCP	54	26621 → 1548 [ACK] Seq=1 Ack=1461 Win=32120 Len=0
193	38.830533	192.168.1.1	192.168.1.195	TCP	54	26621 → 1548 [ACK] Seq=1 Ack=1461 Win=32120 Len=0

Mark/Unmark Packet
Ignore/Unignore Packet
Set/Unset Time Reference
Time Shift...
Packet Comment...
Edit Resolved Name
Apply as Filter
Prepare a Filter
Conversation Filter
Colorize Conversation
SCTP
Follow

TCP Stream

Frame 181: 1514 bytes on wire (12112 bits), 1514 bytes captured (12112 bits) on interface eth0
Ethernet II, Src: HonHaiPr_1f:66:c9 (7c:e9:d3:1f:66:c9), Dst: Tp-LinkT_83:4d:9a (f8:1a:67:83:4d:9a)
Internet Protocol Version 4, Src: 192.168.1.195, Dst: 192.168.1.1
Transmission Control Protocol, Src Port: 1548, Dst Port: 26621, Seq: 2921, Ack: 1, Len: 1460
Hypertext Transfer Protocol
Source Port: 1548
Destination Port: 26621

Krok 4: eksport obrazka

120	32.017330	192.168.1.195	192.168.1.195	HTTP	32 Name query NO 1381AF00?
127	32.019985	192.168.1.195	192.168.1.1	FTP	60 Request: PASV
128	32.022021	192.168.1.1	192.168.1.195	FTP	102 Response: 227 Entering Passive Mode (192,168,1,1,42,25).
129	32.024081	192.168.1.195	192.168.1.1	FTP	63 Request: LIST -a
130	32.024081	192.168.1.195	192.168.1.1	TCP	66 1546 → 10777 [SYN] Seq=0 Win=8192 Len=0 MSS=1460 WS=256 SACK_PERM=1
131	32.025093	192.168.1.1	192.168.1.195	TCP	66 10777 → 1546 [SYN, ACK] Seq=0 Ack=1 Win=29200 Len=0 MSS=1460 SACK_PERM=1 WS=4
132	32.025616	192.168.1.195	192.168.1.1	TCP	54 1546 → 10777 [ACK] Seq=1 Ack=1 Win=17408 Len=0
133	32.027152	192.168.1.195	192.168.1.1	TCP	54 [TCP Window Update] 1546 → 10777 [ACK] Seq=1 Ack=1 Win=4194304 Len=0
134	32.027142	192.168.1.1	192.168.1.195	FTP	93 Response: 150 Here comes the directory listing.

Edit View Go Capture

tcp.stream eq 3

	Time	Source
172	38.798801	192.1
173	38.799301	192.1
174	38.800848	192.1
175	38.802384	192.1
177	38.812624	192.1
178	38.814672	192.1
179	38.815173	192.1
180	38.815686	192.1
181	38.817233	192.1
182	38.818258	192.1
183	38.818757	192.1
184	38.818769	192.1
185	38.818769	192.1
186	38.819269	192.1
187	38.819793	192.1
188	38.820817	192.1
189	38.821841	192.1
190	38.821841	192.1
191	38.829509	192.1
192	38.830533	192.1
193	38.830533	192.1

Frame 181: 1514 bytes on Ethernet II, Src: HonHaiP
Internet Protocol Version
Transmission Control Prot
Source Port: 1548
Destination Port: 2662:

```
f8 1a 67 83 4d 9a 7c e9  
05 dc 2a e3 40 00 80 06  
01 01 06 0c 67 fd c4 2a  
40 00 3f 3f 00 00 20 20  
20 20 20 20 20 20 20 20
```

58 client pkts, 0 server pkts, 0 turns.

Entire conversation (83 kB)

Find:

.....JFIF.....ZPhotoshop 3.0.8BIM.....=..(.
1scs2019{e4129fdd0f7acb2b842ad5f9d34d798982d7e595}.....Phttp://ns.adobe.com/xap/
begin='...' id='W5M0MpCehiHzreSzNTczkc9d'?)>
<x:xmpmeta xmlns:x='adobe:ns:meta/' x:xmptk='Image::ExifTool 10.96'>
<rdf:RDF xmlns:rdf='http://www.w3.org/1999/02/22-rdf-syntax-ns#'>

<rdf:Description rdf:about=''
xmlns:photoshop='http://ns.adobe.com/p
<photoshop:Instructions>scs2019{e4129f
</rdf:Description>
</rdf:RDF>
</x:xmpmeta>

Wireshark · Save Stream Content As...

Organizuj Nowy folder

Ulubione

Ostatnie miejsca

Pobrane

Pulpit

Biblioteki

Dokumenty

Muzyka

Obrazy

Wideo

Grupa domowa

Komputer

Dysk lokalny (C:)

Nazwa pliku: CTF.jpg

Zapisz jako typ: All Files (*)

Ukryj foldery

Krok 5: Metadane w pliku



← → ↻ 🔒 exifinfo.org/detail/dNgBBdCsS9zjtHuvspPRA ☆

Exif Info: CTF.jpg

File

Filename
CTF.jpg

File Size
82 kB

File Type
JPEG

File Type Extension
jpg

MIME Type
image/jpeg

Current IPTC Digest
4c0387a93dd2b5b442f9dd29c15dc3bd

Image Width
713

Image Height
536

Encoding Process
Baseline DCT, Huffman coding

Bits Per Sample
8

Color Components
3

JFIF

JFIF Version
1.01

Resolution Unit
inches

X Resolution
144

Y Resolution
144

IPTC

Special Instructions
scs2019{e4129fdd0f7acb2b842ad5f9d34d798982d7e595}

Application Record Version
4

XMP

XMP Toolkit
Image::ExifTool 10.96

Instructions
scs2019{e4129fdd0f7acb2b842ad5f9d34d798982d7e595}

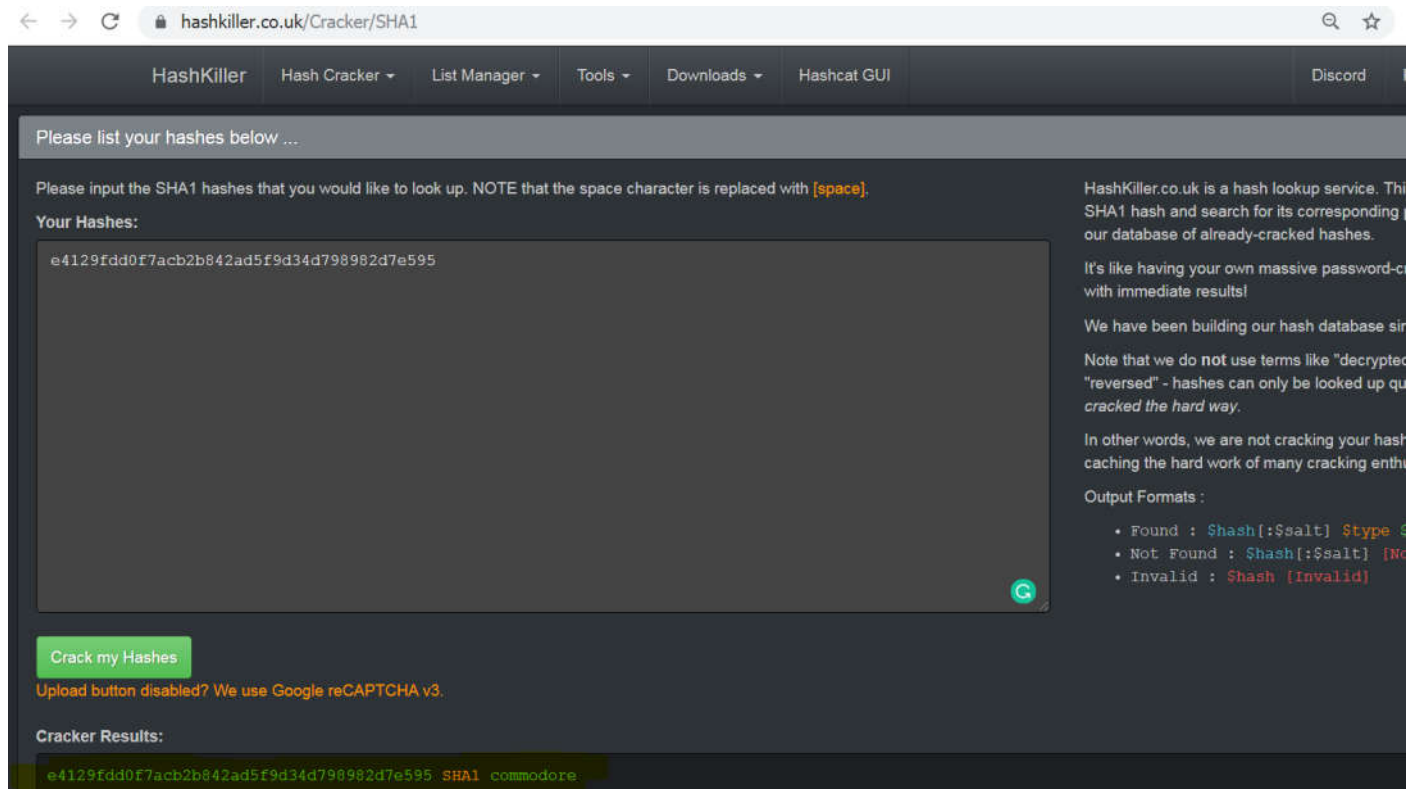
Composite

Image Size
713x536

Megapixels
0.382

Krok 6: Odwrócenie hasha

scs2019{e4129fdd0f7acb2b842ad5f9d34d798982d7e595}



The screenshot shows the HashKiller.co.uk website interface. The browser address bar displays 'hashkiller.co.uk/Cracker/SHA1'. The website has a dark theme with a navigation bar at the top containing links: HashKiller, Hash Cracker, List Manager, Tools, Downloads, Hashcat GUI, and Discord. Below the navigation bar, there is a section titled 'Please list your hashes below ...'. A text input field contains the SHA1 hash 'e4129fdd0f7acb2b842ad5f9d34d798982d7e595'. To the right of the input field, there is a green 'Crack my Hashes' button. Below the button, a message states 'Upload button disabled? We use Google reCAPTCHA v3.' Below this, the 'Cracker Results:' section shows the output: 'e4129fdd0f7acb2b842ad5f9d34d798982d7e595 SHA1 commodore'. The output is highlighted with a yellow background. To the right of the input field, there is a sidebar with text explaining the service: 'HashKiller.co.uk is a hash lookup service. This service allows you to input a SHA1 hash and search for its corresponding password in our database of already-cracked hashes. It's like having your own massive password-cracking database with immediate results! We have been building our hash database since 2010. Note that we do not use terms like "decrypted" or "reversed" - hashes can only be looked up quickly. cracked the hard way. In other words, we are not cracking your hash, we are simply caching the hard work of many cracking enthusiasts.' Below this text, there is a section titled 'Output Formats:' with a list of options: 'Found : \$hash[:\$salt] \$type \$password', 'Not Found : \$hash[:\$salt] [Not Found]', and 'Invalid : \$hash [Invalid]'.

Krok7: commodore

:)

Konrad Jędrzejczyk