

Project 2 CTF

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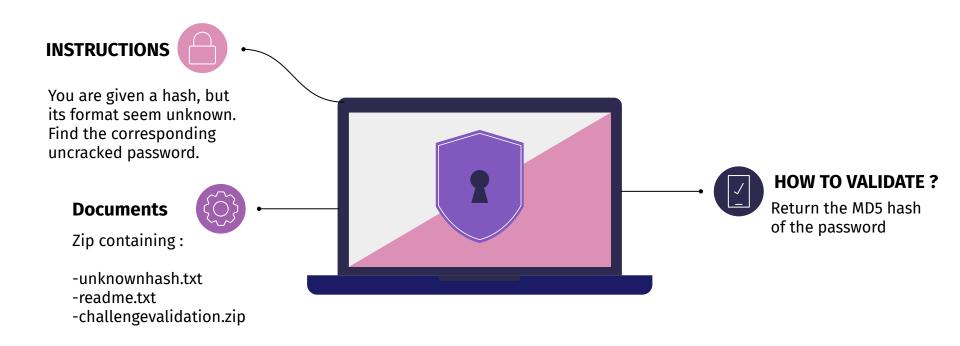
Summary



Challenges

- Cryptography Unrecognized hash (Easy)
- 2 Cryptography Secret message (Easy)
- 3 Steganography Cats (Hard)

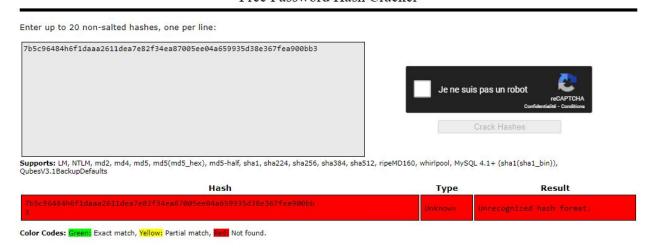
CTF 1 - Description



CTF 1 - Resolution

kali@kali:~/Documents/CTF/crypto\$ cat unknownhash.txt
7b5c96484h6f1daaa2611dea7e82f34ea87005ee04a659935d38e367fea900bb3

Free Password Hash Cracker



Check the length of the hash!

Known hash functions



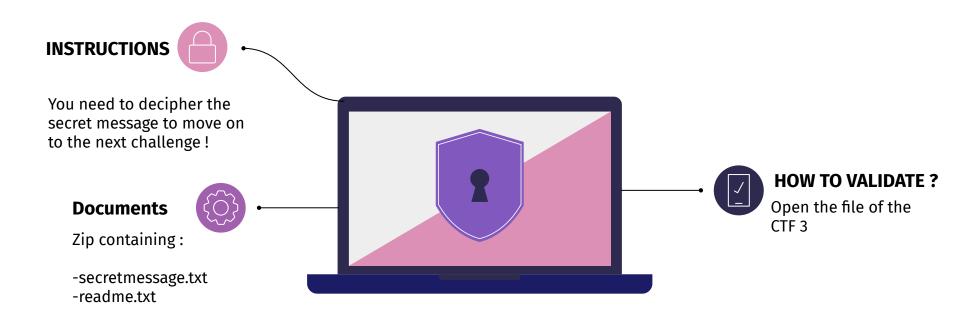
CTF 1 - Resolution

kali@kali:~/Documents/CTF/crypto\$ cat unknownhash.txt
7b5c96484h6f1daaa2611dea7e82f34ea87005ee04a659935d38e367fea900bb3

→ 65 digits



CTF 2 - Description



CTF 2 - Resolution

```
kalimkali:~/Documents/CTF/crypto2$ cat secretmessage.txt
Kle qqbk ghdxpvrgh rmci iv ur kle vmqv dis rmci av flzw ckmpcinjq.
Wysw wti ymdgqr wmlhe eeh yrg azpl iuru mt.
Wti qmp smwjaoup mj xhh fcgi oi qrtvysfmfr uvqh wsr wtmj ghdxpvrgh.
```

```
kali@kali:~/Documents/CTF/crypto2$ cat readme.txt
Solve this challenge to access the next one. Should be easy when you find the key. It is right in front of your eyes ...
```

→ Vigenère cipher

CTF 2 - Resolution - Vigenère cipher

- Key and alphabet
- Add up the key to the clear text
- Can also use a table
- Powerful online tools (dcode.fr)

Α	В	С	D	Ε	F	G	Н	I	J	K	L	М
1	1	1	1	1	1	1	1	1	1	1	1	1
Ŏ	ľ	$\dot{2}$	$\dot{3}$	$\dot{4}$	5	6	7	8	9	10	11	12
M	_	-	_	2	~		**	**				-
N	0	P	Q	R	S	T	U	V	W	X	Y	Z
N	Ŭ ↓	00	Ų ↓									Z 1

Α	В	C	D	E	F	G	H	I	J	K	L	M	N	0	P	Q	R	S	T	U	V	W	X	Y	2
Α	В	С	D	Е	F	G	н	I	J	K	L	М	N	0	P	Q	R	s	Т	U	V	W	Х	Y	
В	С	D	Е	F	G	Н	I	J	K	L	М	N	0	P	Q	R	S	Т	U	V	W	Х	Y	Z	-
С	D	E	F	G	н	I	J	K	L	М	N	0	P	Q	R	s	T	U	٧	W	X	Y	Z	A	
D	E	F	G	н	I	J	K	L	М	N	0	P	Q	R	s	Т	U	v	W	Х	Y	Z	A	В	
E	F	G	н	I	J	K	L	М	N	0	P	Q	R	s	T	U	V	W	х	Y	Z	A	В	С	
F	G	н	I	J	К	L	М	N	0	P	Q	R	s	T	U	٧	W	х	Y	Z	A	В	С	D	
G	н	I	J	К	L	М	N	0	P	Q	R	s	T	U	v	W	Х	Y	Z	A	В	С	D	E	
Н	I	J	K	L	M	N	0	P	Q	R	s	T	U	v	M	х	Y	Z	A	В	С	D	E	F	
I	J	к	L	М	N	0	P	Q	R	s	Т	U	V	W	х	Y	Z	A	В	C	D	E	F	G	
J	К	L	М	N	0	P	Q	R	s	T	U	v	W	х	Y	Z	A	В	С	D	E	F	G	н	-
K	L	М	N	0	P	Q	R	s	T	U	٧	W	х	Y	Z	A	В	С	D	E	F	G	н	I	100
L	М	N	0	P	Q	R	s	T	U	V	W	Х	Y	Z	A	В	С	D	E	F	G	н	I	J	
М	N	0	P	Q	R	s	T	U	V	W	Х	Y	Z	A	В	С	D	E	F	G	Н	I	J	К	
N	0	P	Q	R	S	T	U	V	W	Х	Y	Z	A	В	С	D	Е	F	G	Н	I	J	K	L	3
0	P	Q	R	s	T	U	V	W	Х	Y	Z	A	В	С	D	Е	F	G	Н	I	J	K	L	М	
P	Q	R	s	T	U	V	W	Х	Y	Z	A	В	С	D	Е	F	G	Н	I	J	K	L	М	N	
Q	R	s	T	U	V	W	Х	Y	Z	A	В	С	D	Е	F	G	Н	I	J	K	L	М	N	0	
R	S	T	U	V	W	Х	Y	Z	A	В	С	D	Е	F	G	Н	I	J	K	L	М	N	0	P	
s	T	U	v	W	Х	Y	Z	A	В	С	D	Е	F	G	Н	I	J	K	L	M	N	0	P	Q	
T	U	V	W	Х	Y	Z	Α	В	С	D	Е	F	G	Н	I	J	K	L	М	N	0	P	Q	R	
U	V	W	Х	Y	Z	Α	В	С	D	Е	F	G	н	I	J	K	L	М	N	0	P	Q	R	s	
٧	W	х	Y	Z	A	В	С	D	Е	F	G	н	I	J	K	L	M	N	0	P	Q	R	s	T	
W	Х	Y	Z	A	В	С	D	E	F	G	н	I	J	K	L	М	N	0	P	Q	R	s	Т	U	
Х	Y	Z	А	В	С	D	E	F	G	н	I	J	К	L	М	N	0	P	Q	R	s	Т	U	V	
Y	Z	A	В	С	D	E	F	G	н	I	J	К	L	M	N	0	P	Q	R	s	T	U	v	W	
Z	A	В	С	D	Е	F	G	н	I	J	K	L	М	N	0	P	Q	R	s	т	U	v	W	x	

CTF 2 - Resolution



Vigenere README (Alphabet (26) ABCDEFGHIJKLMNOPQRSTUVWXYZ) The next challenge file is in the same zip file as this challenge.

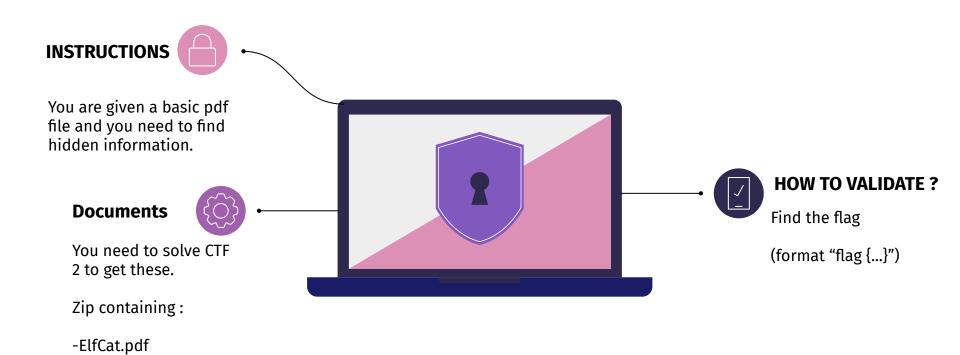
Show the hidden files and you will find it. The zip password is the type of encryption used for this challenge.

```
kali@kali:~/Documents/CTF/crypto2$ cat message.txt
The next challenge file is in the same zip file as this challenge.
Show the hidden files and you will find it.
The zip password is the type of encryption used for this challenge.
```

```
kali@kali:~/Documents/CTF/crypto2$ ls -a
. . message.txt .nextchallenge.zip readme.txt secretmessage.txt
```

CTF 3 - Description

-readme.txt



CTF 3 - Resolution



Thank you for your attention

