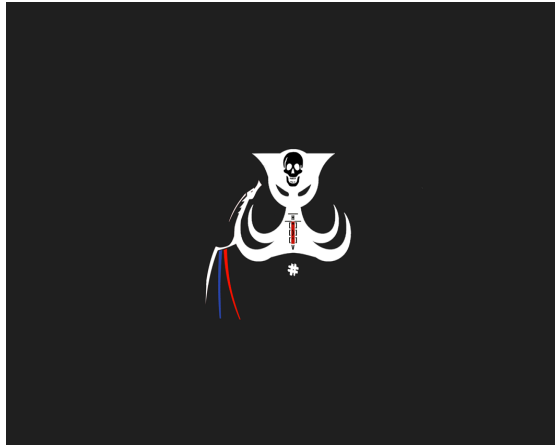


**c4ptur3-th3-fl4g**



**20/01/2022**

## Translation & Shifting

c4n y0u c4p7u23 7h3 f149?

can you capture the flag?

Convertir de binario a texto

01101100 01100101 01110100 01110011 00100000 01110100 01110010  
01111001 00100000 01110011 01101111 01101101 01100101 00100000  
01100010 01101001 01101110 01100001 01110010 01111001 00100000  
01101111 01110101 01110100 00100001

lets try some binary out!

Convertir de Base32 a texto

MJQXGZJTGIQGS4ZAON2XAZLSEBRW63LNN5XCA2LOEBBVIRRHOM=====

base32 is super common in CTF's

Convertir de Base64 a texto

RWFjaCBCYXNINjQgZGlnaXQgcmlVwcmVzZW50cyBleGFjdGx5IDYgYml0cyBvZi  
BkYXRhLg==

Each Base64 digit represents exactly 6 bits of data.

Convertir de hexadecimal a texto

68 65 78 61 64 65 63 69 6d 61 6c 20 6f 72 20 62 61 73 65 31 36 3f

hexadecimal or base16?

Convertir de ROT13 a texto

Ebgngr zr 13 cynprf!

Rotate me 13 places!

Convertir de ROT47 a texto

\*@F DA:? >6 C:89E C@F?5 323J C:89E C@F?5 Wcf E:>6DX

You spin me right round baby right round (47 times)

Convertir de CODIGO MORSE a texto

.. . . . . - - - - - .. - - - - -  
.. - - - - - .. - - - - -

TELECOMMUNICATION ENCODING

Convertir de decimal a texto

85 110 112 97 99 107 32 116 104 105 115 32 66 67 68

Unpack this BCD

Convertir de base64 y nos da CODIGO MORSE

LS0tLS0gLi0tLS0gLi0tLS0gLS0tLS0gLS0tLS0gLi0tLS0gLi0tLS0gLS0tLS0KLS0tLS0g  
Li0tLS0gLi0tLS0gLS0tLS0gLS0tLS0gLi0tLS0gLS0tLS0gLi0tLS0KLS0tLS0gLS0tLS0g  
Li0tLS0gLS0tLS0gLS0tLS0gLS0tLS0gLS0tLS0gLS0tLS0KLS0tLS0gLi0tLS0gLi0tLS0g  
LS0tLS0gLS0tLS0gLS0tLS0gLS0tLS0gLS0tLS0KLS0tLS0gLi0tLS0gLS0tLS0gLi0tLS0  
gLi0tLS0gLi0tLS0gLi0tLS0gLi0tLS0KLS0tLS0gLi0tLS0gLi0tLS0gLS0tLS0gLS0tLS0g  
LS0tLS0gLS0tLS0gLS0tLS0KLS0tLS0gLS0tLS0gLi0tLS0gLS0tLS0gLS0tLS0gLS0tLS0  
gLS0tLS0gLS0tLS0KLS0tLS0gLi0tLS0gLi0tLS0gLS0tLS0gLS0tLS0gLS0tLS0gLS0tLS  
0gLS0tLS0KLS0tLS0gLi0tLS0gLi0tLS0gLS0tLS0gLS0tLS0gLS0tLS0gLS0tLS0gLS0tL  
S0KLS0tLS0gLi0tLS0gLi0tLS0gLS0tLS0gLS0tLS0gLi0tLS0gLS0tLS0gLi0tLS0KLS0tL  
S0gLS0tLS0gLi0tLS0gLS0tLS0gLS0tLS0gLS0tLS0gLS0tLS0gLS0tLS0KLS0tLS0gLi0t  
LS0gLi0tLS0gLS0tLS0gLS0tLS0gLS0tLS0gLi0tLS0gLS0tLS0KLS0tLS0gLi0tLS0gLi0t  
LS0gLS0tLS0gLi0tLS0gLS0tLS0gLS0tLS0gLS0tLS0KLS0tLS0gLS0tLS0gLi0tLS0gLS0  
tLS0gLS0tLS0gLS0tLS0gLS0tLS0gLS0tLS0KLS0tLS0gLi0tLS0gLi0tLS0gLS0tLS0gLS  
0tLS0gLS0tLS0gLS0tLS0gLS0tLS0KLS0tLS0gLi0tLS0gLi0tLS0gLS0tLS0gLS0tLS0gL  
S0tLS0gLS0tLS0gLS0tLS0KLS0tLS0gLi0tLS0gLi0tLS0gLS0tLS0gLS0tLS0gLi0tLS0gL  
S0tLS0gLS0tLS0KLS0tLS0gLS0tLS0gLi0tLS0gLS0tLS0gLS0tLS0gLS0tLS0gLS0tLS0g  
LS0tLS0KLS0tLS0gLi0tLS0gLi0tLS0gLS0tLS0gLS0tLS0gLS0tLS0gLi0tLS0gLS0tLS0K  
LS0tLS0gLi0tLS0gLi0tLS0gLS0tLS0gLS0tLS0gLS0tLS0gLS0tLS0gLi0tLS0KLS0tLS0g  
LS0tLS0gLi0tLS0gLS0tLS0gLS0tLS0gLS0tLS0gLS0tLS0gLS0tLS0KLS0tLS0gLi0tLS0  
gLi0tLS0gLS0tLS0gLS0tLS0gLS0tLS0gLS0tLS0KLS0tLS0gLi0tLS0gLS0tLS  
0gLi0tLS0gLi0tLS0gLi0tLS0gLi0tLS0KLS0tLS0gLi0tLS0gLi0tLS0gLS0tLS0g  
Li0tLS0gLS0tLS0gLS0tLS0gLS0tLS0KLS0tLS0gLS0tLS0gLi0tLS0gLS0tLS0  
gLS0tLS0gLS0tLS0gLS0tLS0KLS0tLS0gLi0tLS0gLi0tLS0gLS0tLS0gLi0tLS0gLi0tLS0  
gLS0tLS0KLS0tLS0gLS0tLS0gLi0tLS0gLS0tLS0gLS0tLS0gLS0tLS0gLS0tLS0gLS0tLS  
OKLS0tLS0gLi0tLS0gLi0tLS0gLS0tLS0gLS0tLS0gLS0tLS0gLS0tLS0gLS0tLS0KLS0tL  
S0gLi0tLS0gLS0tLS0gLi0tLS0gLi0tLS0gLi0tLS0gLi0tLS0gLi0tLS0KLS0tLS0gLi0tLS0  
gLi0tLS0gLS0tLS0gLS0tLS0gLi0tLS0gLi0tLS0gLS0tLS0KLS0tLS0gLS0tLS0gLi0tLS0  
gLS0tLS0gLS0tLS0gLS0tLS0gLS0tLS0KLS0tLS0gLi0tLS0gLi0tLS0gLS0tLS

0gLS0tLS0gLS0tLS0gLS0tLS0gLS0tLS0KLS0tLS0gLi0tLS0gLS0tLS0gLi0tLS0gLi0tLS  
0gLi0tLS0gLi0tLS0gLi0tLS0KLS0tLS0gLi0tLS0gLi0tLS0gLS0tLS0gLS0tLS0gLS0tLS0  
gLS0tLS0gLS0tLS0KLS0tLS0gLS0tLS0gLi0tLS0gLS0tLS0gLS0tLS0gLS0tLS0gLS0tLS  
0gLS0tLS0KLS0tLS0gLi0tLS0gLi0tLS0gLS0tLS0gLS0tLS0gLS0tLS0gLi0tLS0gLS0tLS  
0KLS0tLS0gLi0tLS0gLi0tLS0gLS0tLS0gLS0tLS0gLS0tLS0gLi0tLS0KLS0tLS  
0gLS0tLS0gLi0tLS0gLS0tLS0gLS0tLS0gLS0tLS0gLS0tLS0KLS0tLS0gLi0tL  
S0gLi0tLS0gLS0tLS0gLS0tLS0gLS0tLS0gLS0tLS0KLS0tLS0gLi0tLS0gLi0tL  
S0gLS0tLS0gLS0tLS0gLS0tLS0gLS0tLS0gLS0tLS0KLS0tLS0gLi0tLS0gLi0tLS0gLS0t  
LS0gLS0tLS0gLi0tLS0gLS0tLS0gLi0tLS0KLS0tLS0gLS0tLS0gLi0tLS0gLS0tLS0gLS0t  
LS0gLS0tLS0gLS0tLS0gLS0tLS0KLS0tLS0gLi0tLS0gLi0tLS0gLS0tLS0gLS0tLS0gLS0  
tLS0gLS0tLS0gLS0tLS0KLS0tLS0gLi0tLS0gLS0tLS0gLi0tLS0gLi0tLS0gLi0tLS0gLi0t  
LS0gLi0tLS0KLS0tLS0gLi0tLS0gLi0tLS0gLS0tLS0gLS0tLS0gLS0tLS0gLi0tLS0gLi0tL  
S0KLS0tLS0gLS0tLS0gLi0tLS0gLS0tLS0gLS0tLS0gLS0tLS0gLS0tLS0KLS0t  
LS0gLi0tLS0gLi0tLS0gLS0tLS0gLS0tLS0gLS0tLS0gLS0tLS0KLS0tLS0gLi0t  
LS0gLS0tLS0gLi0tLS0gLi0tLS0gLi0tLS0gLi0tLS0gLi0tLS0KLS0tLS0gLi0tLS0gLi0tLS  
0gLS0tLS0gLS0tLS0gLi0tLS0gLS0tLS0gLS0tLS0KLS0tLS0gLS0tLS0gLi0tLS0gLS0tL  
S0gLS0tLS0gLS0tLS0gLS0tLS0gLS0tLS0KLS0tLS0gLi0tLS0gLi0tLS0gLS0tLS0gLS0t  
LS0gLS0tLS0gLS0tLS0gLS0tLS0KLS0tLS0gLi0tLS0gLi0tLS0gLS0tLS0gLS0tLS0gLS0  
tLS0gLS0tLS0gLS0tLS0KLS0tLS0gLi0tLS0gLi0tLS0gLS0tLS0gLS0tLS0gLi0tLS0gLS0  
tLS0gLS0tLS0KLS0tLS0gLS0tLS0gLi0tLS0gLS0tLS0gLS0tLS0gLS0tLS0gLS0tLS0gLS  
0tLS0KLS0tLS0gLi0tLS0gLi0tLS0gLS0tLS0gLS0tLS0gLi0tLS0gLS0tLS0KLS  
0tLS0gLi0tLS0gLi0tLS0gLS0tLS0gLS0tLS0gLS0tLS0gLi0tLS0KLS0tLS0gLS  
0tLS0gLi0tLS0gLS0tLS0gLS0tLS0gLS0tLS0gLS0tLS0KLS0tLS0gLi0tLS0gLi  
0tLS0gLS0tLS0gLi0tLS0gLS0tLS0gLS0tLS0gLS0tLS0KLS0tLS0gLi0tLS0gLi0tLS0gLS  
0tLS0gLS0tLS0gLi0tLS0gLi0tLS0gLS0tLS0KLS0tLS0gLS0tLS0gLi0tLS0gLS0tLS0gLS  
0tLS0gLS0tLS0gLS0tLS0gLS0tLS0KLS0tLS0gLi0tLS0gLi0tLS0gLS0tLS0gLS0tLS0gL  
S0tLS0gLi0tLS0gLS0tLS0KLS0tLS0gLi0tLS0gLi0tLS0gLS0tLS0gLS0tLS0gLS0tLS0gL  
S0tLS0gLi0tLS0KLS0tLS0gLS0tLS0gLi0tLS0gLS0tLS0gLS0tLS0gLS0tLS0gLS0tLS0g  
LS0tLS0KLS0tLS0gLi0tLS0gLi0tLS0gLS0tLS0gLi0tLS0gLi0tLS0gLi0tLS0KLS0tLS0gL  
S0tLS0gLi0tLS0gLS0tLS0gLS0tLS0gLS0tLS0gLS0tLS0gLS0tLS0KLS0tLS0gLi0tLS0g  
Li0tLS0gLS0tLS0gLS0tLS0gLS0tLS0gLS0tLS0gLS0tLS0KLS0tLS0gLi0tLS0gLS0tLS0  
gLi0tLS0gLi0tLS0gLi0tLS0gLi0tLS0gLi0tLS0KLS0tLS0gLi0tLS0gLi0tLS0gLS0tLS0gL  
S0tLS0gLi0tLS0gLS0tLS0gLS0tLS0KLS0tLS0gLS0tLS0gLi0tLS0gLS0tLS0gLS0tLS0g  
LS0tLS0gLS0tLS0gLS0tLS0KLS0tLS0gLi0tLS0gLi0tLS0gLS0tLS0gLS0tLS0gLS0tLS0  
gLS0tLS0gLS0tLS0KLS0tLS0gLi0tLS0gLi0tLS0gLS0tLS0gLS0tLS0gLS0tLS0gLS0tLS  
0gLS0tLS0KLS0tLS0gLi0tLS0gLi0tLS0gLS0tLS0gLS0tLS0gLi0tLS0gLS0tLS0gLi0tLS  
0KLS0tLS0gLS0tLS0gLi0tLS0gLS0tLS0gLS0tLS0gLS0tLS0gLS0tLS0KLS0tL  
S0gLi0tLS0gLi0tLS0gLS0tLS0gLS0tLS0gLS0tLS0gLi0tLS0gLS0tLS0KLS0tLS0gLi0tL

S0gLi0tLS0gLS0tLS0gLS0tLS0gLS0tLS0gLS0tLS0gLi0tLS0KLS0tLS0gLS0tLS0gLi0tL  
S0gLS0tLS0gLS0tLS0gLS0tLS0gLS0tLS0gLS0tLS0KLS0tLS0gLi0tLS0gLi0tLS0gLS0t  
LS0gLS0tLS0gLS0tLS0gLS0tLS0gLS0tLS0KLS0tLS0gLi0tLS0gLi0tLS0gLS0tLS0gLS0  
tLS0gLS0tLS0gLS0tLS0gLS0tLS0KLS0tLS0gLi0tLS0gLi0tLS0gLS0tLS0gLS0tLS0gLi0  
tLS0gLS0tLS0gLi0tLS0KLS0tLS0gLS0tLS0gLi0tLS0gLS0tLS0gLS0tLS0gLS0tLS0gLS  
0tLS0gLS0tLS0KLS0tLS0gLi0tLS0gLi0tLS0gLS0tLS0gLS0tLS0gLS0tLS0gLS0tLS0gLS  
S0tLS0KLS0tLS0gLi0tLS0gLi0tLS0gLS0tLS0gLS0tLS0gLS0tLS0gLS0tLS0gLS0tLS0K  
LS0tLS0gLi0tLS0gLi0tLS0gLS0tLS0gLS0tLS0gLS0tLS0gLi0tLS0gLi0tLS0KLS0tLS0g  
LS0tLS0gLi0tLS0gLS0tLS0gLS0tLS0gLS0tLS0gLS0tLS0KLS0tLS0gLi0tLS0  
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0gLi0tLS0gLi0tLS0gLi0tLS0gLi0tLS0gLi0tLS0KLS0tLS0gLi0tLS0gLi0tLS0gLS0tLS0g  
LS0tLS0gLi0tLS0gLS0tLS0gLS0tLS0KLS0tLS0gLS0tLS0gLi0tLS0gLS0tLS0gLS0tLS0  
gLS0tLS0gLS0tLS0gLS0tLS0KLS0tLS0gLi0tLS0gLi0tLS0gLS0tLS0gLi0tLS0gLS0tLS0  
gLS0tLS0KLS0tLS0gLS0tLS0gLi0tLS0gLS0tLS0gLS0tLS0gLS0tLS0gLS0tLS0gLS0tLS  
OKLS0tLS0gLi0tLS0gLi0tLS0gLS0tLS0gLS0tLS0gLS0tLS0gLS0tLS0KLS0tL  
S0gLi0tLS0gLS0tLS0gLi0tLS0gLi0tLS0gLi0tLS0gLi0tLS0gLi0tLS0gLi0tLS0KLS0tLS0gLi0tLS0  
gLi0tLS0gLS0tLS0gLS0tLS0gLi0tLS0gLi0tLS0gLS0tLS0KLS0tLS0gLS0tLS0gLi0tLS0  
gLS0tLS0gLS0tLS0gLS0tLS0gLS0tLS0KLS0tLS0gLi0tLS0gLi0tLS0gLS0tLS  
0gLS0tLS0gLS0tLS0gLS0tLS0KLS0tLS0gLi0tLS0gLS0tLS0gLi0tLS0gLi0tLS  
0gLi0tLS0gLi0tLS0gLi0tLS0KLS0tLS0gLi0tLS0gLi0tLS0gLS0tLS0gLS0tLS0gLi0tLS0  
gLS0tLS0gLS0tLS0KLS0tLS0gLS0tLS0gLi0tLS0gLS0tLS0gLS0tLS0gLS0tLS  
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S0gLi0tLS0gLS0tLS0gLS0tLS0gLS0tLS0gLS0tLS0KLS0tLS0gLi0tLS0gLi0tL  
S0gLS0tLS0gLS0tLS0gLS0tLS0gLS0tLS0KLS0tLS0gLi0tLS0gLi0tLS0gLS0t  
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tLS0gLi0tLS0KLS0tLS0gLi0tLS0gLi0tLS0gLS0tLS0gLi0tLS0gLS0tLS0gLi0t  
LS0KLS0tLS0gLS0tLS0gLi0tLS0gLS0tLS0gLS0tLS0gLS0tLS0gLS0tLS0KLS  
0tLS0gLi0tLS0gLi0tLS0gLS0tLS0gLS0tLS0gLi0tLS0gLi0tLS0KLS0tLS0gLi0  
tLS0gLi0tLS0gLS0tLS0gLS0tLS0gLi0tLS0gLS0tLS0gLi0tLS0KLS0tLS0gLS0tLS0gLi0  
tLS0gLS0tLS0gLS0tLS0gLS0tLS0gLS0tLS0KLS0tLS0gLi0tLS0gLi0tLS0gLS  
0tLS0gLS0tLS0gLS0tLS0gLi0tLS0gLi0tLS0KLS0tLS0gLi0tLS0gLi0tLS0gLS  
0tLS0gLi0tLS0gLS0tLS0gLi0tLS0=

## Convertir de CODIGO MORSE y nos da binario

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[illegible]

Handwriting practice sheet with 20 rows of dashed lines for tracing and writing practice. Each row contains a series of dashed letters and symbols for tracing.



Convertir de CODIGO MORSE y nos da binario

01100110 01100101 00100000 01100000 01011111 01100000 00100000  
01100000 01100000 01100101 00100000 01100010 01101000 00100000  
01100000 01100000 01100100 00100000 01100010 01100001 00100000  
01100000 01011111 01101000 00100000 01101000 01100110 00100000  
01100000 01011111 01100110 00100000 01100000 01011111 01100000  
00100000 01100010 01100001 00100000 01100000 01100000 01100101  
00100000 01100000 01011111 01100011 00100000 01100000 01011111  
01100100 00100000 01100000 01100000 01100100 00100000 01100010  
01100001 00100000 01101000 01100110 00100000 01100010 01100001  
00100000 01101000 01100111 00100000 01100000 01011111 01100100  
00100000 01100000 01100000 01100101 00100000 01100010 01100001  
00100000 01100000 01100000 01100101 00100000 01100000 01100000  
01100011 00100000 01100000 01011111 01100100 00100000 01101000  
01101000 00100000 01100000 01011111 01100110 00100000 01100000  
01011111 01100100 00100000 01100000 01011111 01100000 00100000  
01100000 01100000 01100011 00100000 01100011 01100101 00100000  
01100011 01100101 00100000 01100011 01100101

Convertir de ROT47 y nos da un decimal

fe ` \_ ``e bh ``d ba ` \_h hf ` \_f ` \_ ` ba ``e ` \_c ` \_d ``d ba hf ba hg ` \_d ``e ba ``e ``c  
` \_d hh ` \_f ` \_d ` \_ ``c ce ce ce

Convertir de decimal

76 101 116 39 115 32 109 97 107 101 32 116 104 105 115 32 97 32 98 105 116  
32 116 114 105 99 107 105 101 114 46 46 46  
76 101 116 39 115 32 109 97 107 101 32 116 104 105 115 32 97 32 98 105 116  
32 116 114 105 99 107 105 101 114 46 46 46

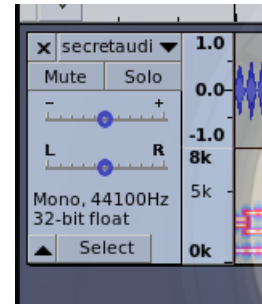
Let's make this a bit trickier...

## Spectrograms

descargamos el archivo secretaudio.wav  
abrimos audacity junto con el archivo

en el lado izquierdo

seleccionamos multiview y spectrogram



Super Secret Message

# Steganography

descargamos el archivo Steganography  
abrimos la imagen para ver su contenido

realizamos un `steghide info stegosteg.jpg`

```
steghide info stegosteg.jpg
```

```
"stegosteg.jpg":
```

```
format: jpeg
```

```
capacity: 2.5 KB
```

```
Try to get information about embedded data ? (y/n) y
```

```
Enter passphrase:
```

```
embedded file "steganopayload2248.txt":
```

```
size: 13.0 Byte
```

```
encrypted: rijndael-128, cbc
```

```
compressed: yes
```

vemos que contiene un archivo txt  
procedemos a extraerlo

```
steghide extract -sf stegosteg.jpg
```

```
Enter passphrase:
```

```
wrote extracted data to "steganopayload2248.txt".
```

```
ls
```

```
steganopayload2248.txt  stegosteg.jpg
```

```
cat steganopayload2248.txt
```

```
SpaghettiSteg
```

# Security through obscurity

examinamos el archivo con binwalk

nos permite examinar los archivos que se encuentran en la imagen

```
binwalk meme.jpg
```

DECIMAL	HEXADECIMAL	DESCRIPTION
0	0x0	JPEG image data, JFIF standard 1.01
30	0x1E	TIFF image data, big-endian, offset of first image directory: 8
74407	0x122A7	RAR archive data, version 5.x
74478	0x122EE	PNG image, 147 x 37, 8-bit/color RGBA, non-interlaced
74629	0x12385	Zlib compressed data, default compression

y vemos que se encuentran varios archivos

procedemos a extraerlos

```
binwalk -e meme.jpg
```

nos extrae una carpeta

\_meme.jpg.extracted

procedemos a entrar y vemos lo que contiene

```
ls
```

122A7.rar 12385 12385.zlib hackerchat.png

desplegamos primero la imagen

display hackerchat.png

y encontramos el una imagen, posiblemente con credenciales



H4ck3r Ch4tz

analizamos la imagen si se encuentra algun archivo

```
binwalk hackerchat.png
```

DECIMAL	HEXADECIMAL	DESCRIPTION
0	0x0	PNG image, 147 x 37, 8-bit/color RGBA, non-interlaced
151	0x97	Zlib compressed data, default compression

extraemos los archivo

```
binwalk -e hackerchat.png
```

\_hackerchat.png.extracted

encontramos dos archivos que contiene

```
ls
97 97.zlib
```

analizamos los archivos

```
cat 97
<BINARY>
```

nos dice que un binario

procedemos a abrirlo con hexeditor

```
hexeditor 97
```

vemos que contiene una cadena de caracteres

procedemos a analizar con strings

```
strings 97
```

y no encontramos nada

ahora analizamos el 97.zlib

```
hexeditor 97.zlib
```

vemos que hay algo interesante en el archivo

procedemos a analizar con strings

```
encontramos la bandera
```

```
"AHH_YOU_FOUND_ME!"
```

procedemos a analizar el archivo .rar

```
7z l 122A7.rar
```

```
7-Zip [64] 16.02 : Copyright (c) 1999-2016 Igor Pavlov : 2016-05-21
p7zip Version 16.02 (locale=en_ZW.UTF-8,Utf16=on,HugeFiles=on,64 bits,8 CPUs Intel(R) Core(TM) i7-10750H CPU @ 2.60GHz (A0652),ASM,AES-NI)
```

```
Scanning the drive for archives:
1 file, 5716 bytes (6 KiB)
```

```
Listing archive: 122A7.rar
```

```
--
Path = 122A7.rar
Type = Rar5
Physical Size = 5716
Solid = -
Blocks = 1
Encrypted = -
Multivolume = -
Volumes = 1
```

Date	Time	Attr	Size	Compressed	Name
2019-05-27	20:30:36	....A	5562	5562	hackerchat.png

vemos que contiene un archivo

procedemos a extraerlo

vemos que contiene una carpeta igual que se llama `_hackerchat.png.extracted`

nos metenemos y contiene dos archivos  
 encontramos dos archivos que contiene

```
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97 97.zlib
```

analizamos los archivos

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<BINARY>
```

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"AHH_YOU_FOUND_ME!"
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