CTF

http://178.128.236.27:4000/



Rome

Exiftool:used for reading and writing meta information in a variety of file types.

Metadata: summarizes basic **information** about data/file.

```
root@Aurora:~/Downloads# exiftool hackersmemory.jpg
ExifTool Version Number
                                 : 11.08
File Name
                                  hackersmemory.jpg
Directory
File Size
                                 : 2.3 MB
                             : 2018:08:23 14:31:05+03:00
File Modification Date/Time
File Access Date/Time
                               : 2018:08:24 20:32:52+03:00
File Inode Change Date/Time : 2018:08:23 14:31:05+03:00
File Permissions
                                : rw-r--r--
File Type
                                : JPEG
File Type Extension
                                : jpg
MIME Type
                                : image/jpeg
XMP Toolkit
                                : Image::ExifTool 10.80
Key
                                : redacted
                                : Vzntvangvba vf gur qvfpbirevat snphygl
 cer-rzvaragyl. Vg vf gung juvpu crargengrf vagb gur hafrra jbeygf nebh
ag hf, gur jbeygf bs fpvrapr. ~ ergnpgrg
Start
                                : Welcome to the first shehacks ke ctf.
Start playing!
Image Width
                                 : 2000
                                 : 1125
Image Height
                                : Baseline DCT, Huffman coding
Encoding Process
Bits Per Sample
                                : 8
Color Components
                                : 3
Y Cb Cr Sub Sampling
                                : YCbCr4:4:4 (1 1)
Image Size
                                  2000×1125
Megapixels
                                : 2.2
```

Rome

Play: !! Encrypted Data !!

Type: ceasar cipher text.

```
Example : redacted

Flay : Vzntvangvba vf gur qvfpbirevat snphygl

, cer-rzvaragyl. Vg vf gung juvpu crargengrf vagb gur hafrra jbeyqf nebh
aq hf, gur jbeyqf bs fpvrapr. ~ erqnpgrq

Start : Welcome to the first shehacks_ke ctf.

Start playing!

Start playing!

Start playing!

Start playing : Vzntvangvba vf gur qvfpbirevat snphygl

Evaluation of the first shehacks_ke ctf.

Start playing!

Start playing : redacted

Evaluation of the first shehacks_ke ctf.

Start playing : redacted

Evaluation of the first shehacks_ke ctf.

Start playing : redacted

Evaluation of the first shehacks_ke ctf.

Start playing : redacted

Evaluation of the first shehacks_ke ctf.

Start playing : redacted

Evaluation of the first shehacks_ke ctf.

Start playing : redacted

Evaluation of the first shehacks_ke ctf.

Start playing : redacted

Evaluation of the first shehacks_ke ctf.

Start playing : redacted

Evaluation of the first shehacks_ke ctf.

Start playing : redacted

Evaluation of the first shehacks_ke ctf.

Start playing : redacted

Evaluation of the first shehacks_ke ctf.

Start playing : redacted

Evaluation of the first shehacks_ke ctf.

Start playing : redacted

Evaluation of the first shehacks_ke ctf.

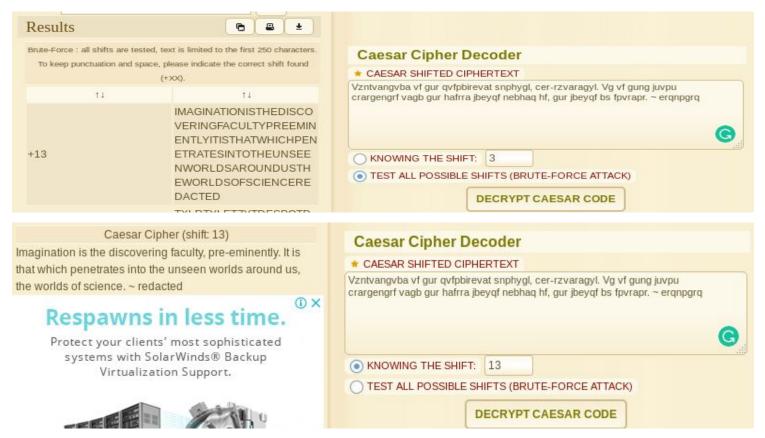
Start playing : redacted

Evaluation of the first shehacks_ke ctf.

Evaluatio
```

Rome

Decrypting the cipher | online tool -> https://www.dcode.fr/caesar-cipher







Flag = Imagination is the discovering faculty, pre-eminently. It is that which penetrates into the unseen worlds around us, the worlds of science. ~ redacted

Hidden in Plain Sight

So we have two clues:



1. Key : redacted

From exiftool --- results.

Caesar Cipher (shift: 13)
 Imagination is the discovering faculty, pre-eminently. It is that which penetrates into the unseen worlds around us, the worlds of science. ~ redacted

Tool: Google

Imagination is the Discovering Faculty, pre-eminently. It is that which penetrates into the unseen worlds around us, the worlds of Science.

Ada Lovelace

Flag = Ada Lovelace

Decrypted result at the end ~ redacted. Joining the dots ...

Hidden in Plain Sight

Key = Ada Lovelace ?? What Next ??

TOOL: Steghide; is a steganography program that is various kinds of image- and audio-files.

```
root@Aurora:~/Downloads# steghide info hackersmemory.jpg
"hackersmemory.jpg":
   format: jpeg
   capacity: 135.8 KB
Try to get information about embedded data ? (y/n) y
Enter passphrase:
   embedded file "her.png":
        size: 29.1 KB
        encrypted: rijndael-128, cbc
        compressed: yes
```



Hidden in Plain Sight

!! EXTRACTING EMBEDDED DATA!!

```
root@Aurora:~/Downloads# steghide extract -sf hackersmemory.jpg
Enter passphrase:
wrote extracted data to "her.png".
```

her.png



Breaches and Dumps

QRCODE SCAN RESULTS

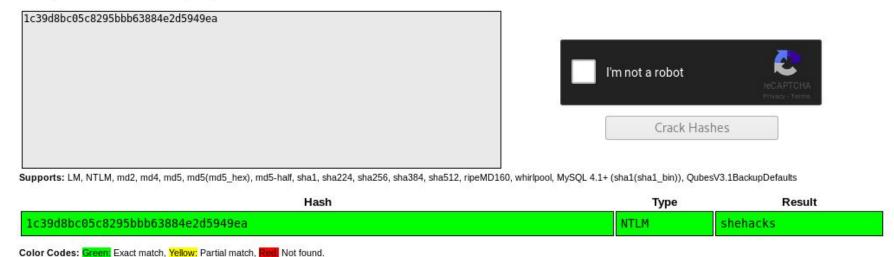




username:USID:LM-Hash:NTLM-

Breaches and Dumps

Enter up to 20 non-saited nasnes, one per line:



Tool: crackstation.net

Flag: shehacks << it was that !! EASY !!

