

Challenge Name: Hackme\_rox !

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CATEGORY : FORENSICS

Level : Hard--

Flag: TamilCTF{this\_is\_SAFE?}

Author: [Paul Jeremiah](#)

Challenge

11 Solves



# Hack Me Da rox

## 597

Make sure you know the challenge format and it helps you.

Key length is 9

Author - 0xCyberPJ

link [download](#)

Flag

Submit

Description: Make sure to know the flag format of "Tamilctf" !

## GIVEN:

hackmeda\_rox.png

```
(root@kali) - [/tmp/hackme]
# ls && file hackme_rox.png
hackme_rox.png
hackme_rox.png: data
```

## WALKTHROUGH

### \$file says, data!

Lets start with some basic things.

```
$ strings hackme_rox.png
wY*`
m}^ {
B? C
u.ub
VuV8
n]Ex
s`UB
```

### AS DESCRIPTION SAYS WE NEED TO CONCENTRATE ON FLAG FORMATS..

Lets say

- TamilCTF{
- TamilCTF
- TamilCTF{}
- TamilCTF}

**So now we have some keys or password or something .**

**You can also brute force**

You Can Try - zsteg , jsteg, steghide, and some online tools too  
but nothing going to help Here :(  
Because it's still Not a PNG ~

**Rox is nothing but Xor!**

**// So what is the Key to decrypt?**

**They said Key length is 9**

**TamilCTF{ = 9**

**// YOU CAN USE CYBER CHEF AND XOR BRUTEFORCE OPTION AND TRY THESE KEYS TO GET ANY USEFUL PNG**

**→ Here im going to use pwntools**

```
pip3 install pwntools
```

```
>>> from pwn import xor
>>> png=open("hackme_rox.png","rb").read()
>>> new=open("new_image.png","wb").write(xor("TamilCTF{",png))
```

**New image created successfully**

```
(kali@kali) - [/tmp/hackme]
$ < file new_image.png
new_image.png: PNG image data, 3840 x 2160, 8-bit/color RGB, non-interlaced
```

Final Hint : "  in stegano"

About 1,89,000 results (0.91 seconds)

<https://pypi.org/project/stegano>

## stegano - PyPI

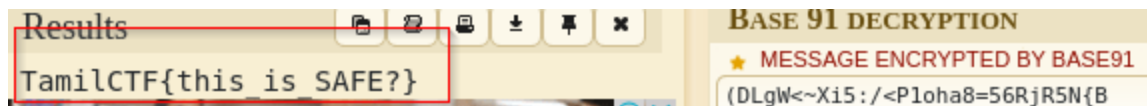
Stegano, a pure **Python Steganography** module. Steganography is the art and science of writing hidden messages in such a way that no one, apart from the ...

[Stegano](#), a pure Python Steganography module.

```
>>> from stegano import lsbset
>>> from stegano.lsbset import generators
>>> lsbset.reveal("new_image.png", generators.eratosthenes())
'(DLgW<~Xi5:/<P1oha8=56RjR5N{B'
```

hint is given for this (91)

base91 : Lets decode



Flag: TamilCTF{this\_is\_SAFE?}

2. → // With Cyber chef!



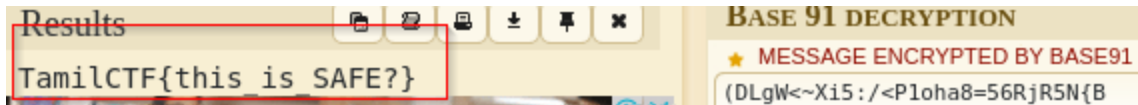
```
b2,r,lsb,xy,prime .. text: "U@EUUUUUUUUUUUUUUUUUUUUUUYi"  
b2,r,msb,xy,prime .. text: "ifiUeYVUV"  
b2,g,lsb,xy,prime .. text: "DUUUUUUV"
```

Here too, we got this :

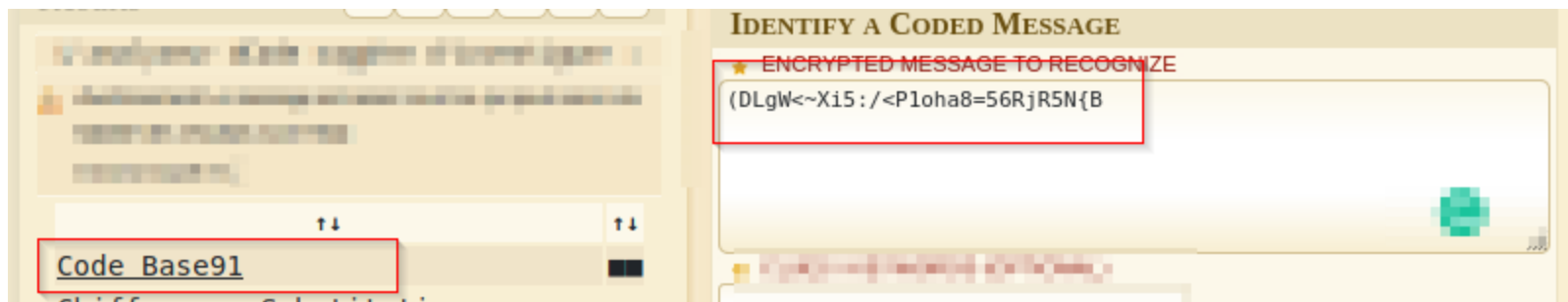
```
(DLgW<~Xi5:/<P1oha8=56RjR5N{B
```

- decode it and get the flag

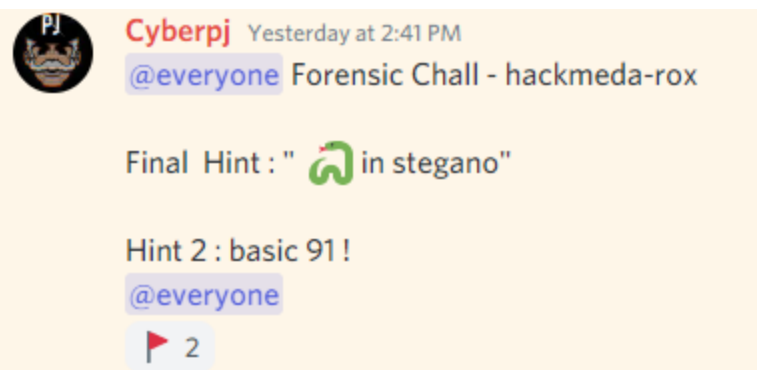
**Thats all**



```
(DLgW<~Xi5:/<P1oha8=56RjR5N{B
```



Hits Given :



**python stegano  
and base91 from lsb**

THANK YOU - [@cyberpj](#)

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