Challenge Name: Stegnanba

Category: Steganography

level: Easy

Author: **Paul**

solution:

- 1. The Given file is with the extension of ".jpg".
- 2. file says IPEG YES!
- 3. exif tool or string the image

```
-(p4ul&none)-[~/ctf/tamil-ctf]
   └$ exiftool stegnanba.jpg
                                                                                                                                                                                       📗 🐠 🕞 📤 😟 १५:हर
🔹 pj 🕴 🛮 🔲 🖺 Shell No. 1
                                                                                                     Shell No. 1
File Actions Edit View Help
[X]-[cyberpj@cyberpj-virtualbox]-[~/tamilctf2021/steg/stegnanba]

$file stegnanba.jpg
stegnanba.jpg: JPEG image data, JFIF standard 1.01, resolution (DPCM), density 236x236, segment length 16, Exif Standard: [TIFF image data, big-endian, direntries=5, xresolution=74, yresolution=82, resolutionunit=3], comment: "vanakam nan ba iam p4ul", baseline, precision 8, 3840x2160, components 3

[cyberpj@cyberpj-virtualbox]-[~/tamilctf2021/steg/stegnanba]

$exiftool stegnanba.jng
 $exiftool stegnanba.jpg
ExifTool Version Number
                                                       : 11.88
 File Name
                                                         : stegnanba.jpg
                                                         : 2021:05:18 06:04:42+04:00
: 2021:05:24 10:45:28+04:00
: 2021:05:24 10:45:15+04:00
 File Modification Date/Time
 File Access Date/Time
File Inode Change Date/Time
                                                           rw-r--r
JPEG
 File Type
File Type Extension
                                                           jpg
image/jpeg
 MIME Type
 JFIF Version
Exif Byte Order
                                                           Big-endian (Motorola, MM)
   Resolution
 Resolution Unit
   Cb Cr Positioning
                                                            vanakam nanba iam p4ul
```

- You can Get some comments and lots of information
- Artist data looks weird
- nothing but base64:)
 - artist : dDRtMWw0bmQ0Cg==

! ok it contain something called t4m1l4nd4

- o The challenge name is stegnanba
- :) **Steghide** is the hero here , not vanakam nanba!

Steghide used to extract information or embed and lot can do with it

1. flag.txt contain double encoded base64

```
-[cyberpj@cyberpj-virtualbox]—[~/tamilctf2021/steg/stegnanba]
     $echo dDRtMWw0bmQ0Cg== |base64 -d
t4m1l4nd4
 -[cyberpj@cyberpj-virtualbox]-[~/tamilctf2021/steg/stegnanba]
   - $steghide extract -sf stegnanba.jpg
Enter passphrase:
wrote extracted data to "flag.txt".
 -[cyberpj@cyberpj-virtualbox]-[~/tamilctf2021/steg/stegnanba]
    $cat flag.txt
VkdGdGFXeERWRVo3Y3pjeloxOXRNMTl3TVRNME5UTmZNekUxTTE5Y1NURXhYMk0wYkd4ZmRtNTlD
Zz09Cq==
 -[cyberpj@cyberpj-virtualbox]-[~/tamilctf2021/steg/stegnanba]
$echo double encoded b64 so double encoded b64 so
 -[cyberpj@cyberpj-virtualbox]-[~/tamilctf2021/steg/stegnanba]
____ $cat flag.txt |base64 -d |base64 -d
TamilCTF{s73g_m3_p13453_3153_\I11_c4ll_vn}
  [cyberpj@cyberpj-virtualbox]—[~/tamilctf2021/steg/stegnanba]
```

THATS ALL NANBA

THANK YOU

BY TAMILCTF2021 TEAM