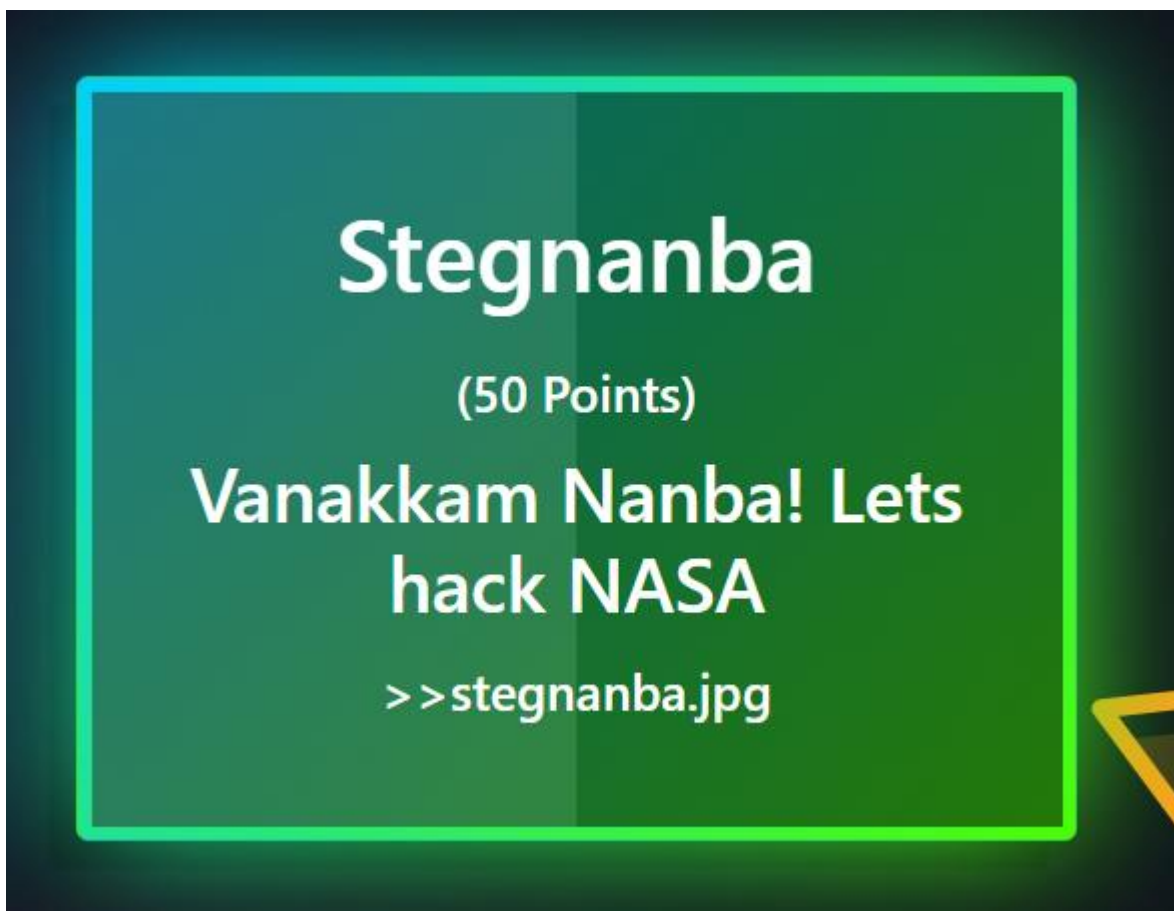


CTF Walkthrough

STEGNO Challenge

Stegnanba

50 Points



First click on the stegnanba.jpg and then a **.zip** will be downloaded then unzip the files and a .jpg will be extracted from it.

```
(kali㉿kali) - [~/Desktop/steg]
$ ls
stegnanba.zip

(kali㉿kali) - [~/Desktop/steg]
$ unzip stegnanba.zip
Archive:  stegnanba.zip
  inflating: stegnanba.jpg
```

let's use **exiftool** to view the metadata of “stegnanba.jpg” image.

```
(kali㉿kali) - [~/Desktop/steg]
$ exiftool stegnanba.jpg
ExifTool Version Number      : 12.16
File Name                    : stegnanba.jpg
Directory                   : .
File Size                    : 396 KiB
File Modification Date/Time  : 2021:05:17 22:04:42-04:00
File Access Date/Time       : 2021:05:24 13:21:44-04:00
File Inode Change Date/Time  : 2021:05:24 13:21:44-04:00
File Permissions             : rw-r--r--
File Type                    : JPEG
File Type Extension         : jpg
MIME Type                    : image/jpeg
JFIF Version                 : 1.01
Exif Byte Order              : Big-endian (Motorola, MM)
X Resolution                  : 236
Y Resolution                  : 236
Resolution Unit              : cm
Artist                       : dDRtMWw0bmQ0Cg==
Y Cb Cr Positioning         : Centered
Comment                      : vanakam nanba iam p4ul
Image Width                  : 3840
Image Height                 : 2160
Encoding Process             : Baseline DCT, Huffman coding
Bits Per Sample              : 8
Color Components             : 3
Y Cb Cr Sub Sampling        : YCbCr4:4:4 (1 1)
Image Size                   : 3840x2160
Megapixels                   : 8.3
```

The base64 encoded string is found in the **Artist**. Let's decode it.

```
(kali㉿kali) - [~/Desktop/steg]
$ echo "dDRtMWw0bmQ0Cg==" | base64 -d
t4m1l4nd4
```

By decoding it I found a string. Next just try to extract the hidden data from **stegnanba.jpg** using the below command.

```
steghide extract -sf stegnanba.jpg
```

And the passphrase for extraction is : **t4m1l4nd4**

```
(kali㉿kali) - [~/Desktop/steg]
$ steghide extract -sf stegnanba.jpg
Enter passphrase:
wrote extracted data to "flag.txt".
```

The flag.txt file is extracted. Let's view the file using “cat” command and it contains a base64 encoded text.

```
(kali㉿kali) - [~/Desktop/steg]
$ cat flag.txt
VkdGdGFxeERWRVo3Y3pje1ox0XRNMtL3TVRNME5UTmZNekUxTTE5Y1NURXhYMk0wYkd4ZmRtNTlD
Zz09Cg==
```

Decode it and again we got a base64 encoded text and again decode it and finally we got the flag.!!

```
(kali㉿kali) - [~/Desktop/steg]
$ echo "VkdGdGFxeERWRVo3Y3pje1ox0XRNMtL3TVRNME5UTmZNekUxTTE5Y1NURXhYMk0wYkd4ZmRtNTlDZz09Cg==" | base64 -d
VGftaWxDVEZ7czczZ19tM19wMTM0NTNfMzE1M19cSTExX2M0bGxfdm59Cg==

(kali㉿kali) - [~/Desktop/steg]
$ echo "VGftaWxDVEZ7czczZ19tM19wMTM0NTNfMzE1M19cSTExX2M0bGxfdm59Cg==" | base64 -d
TamilCTF{s73g_m3_p13453_3153_\I1l_c4ll_vn}
```

THE END

