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Title : Just Files

Git-Hub Links : https://github.com/Jayesh-2003

Title : Just Files

Category : Steganography

Description : The question is all about finding the real format of file and hidden hints in files.
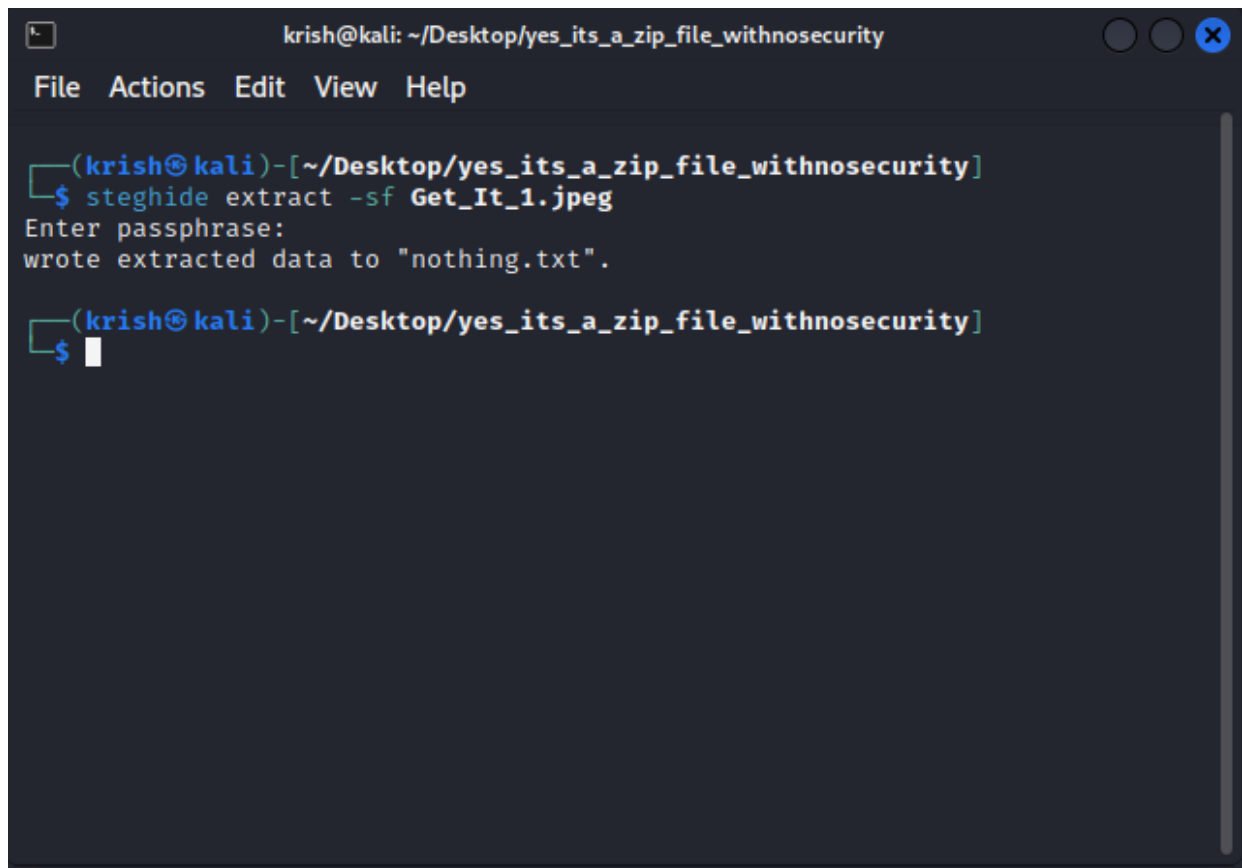
Flags : VishwaCTF{lucifer_S01E03}

WriteUp

1] Downloading the zip file and extracting it we get 2 files one .jpeg and one .png Pointing fingers towards eachother.

2] If we consider the accusation of the second file, here we can understand that the .jpeg file has no security soo we can get a small idea that steghide is used and there is no password(no security).
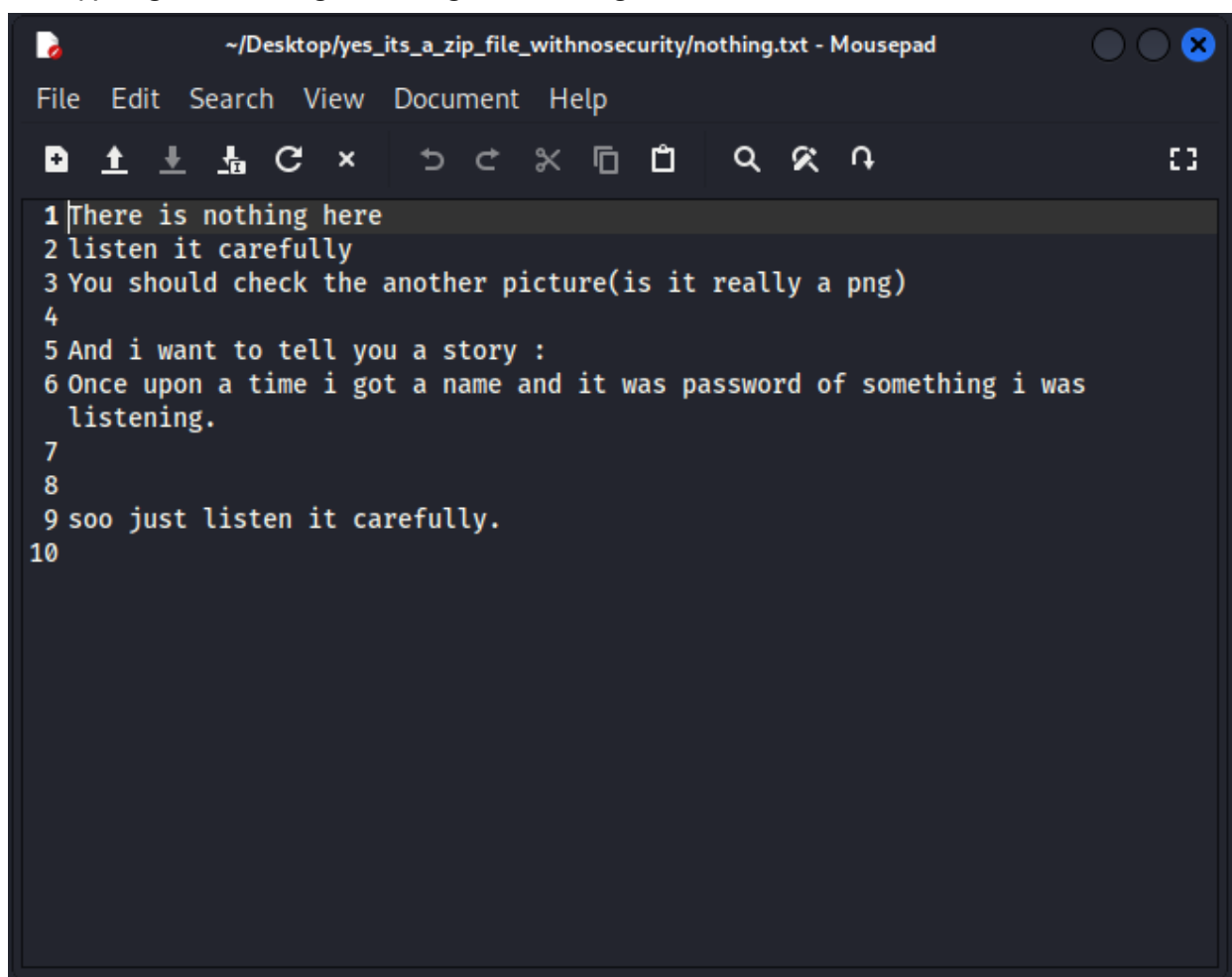
Decrypting it with Steghide we get a nothing.txt file.

1 There is nothing here
2 listen it carefully
3 You should check the another picture(is it really a png)
4
5 And i want to tell you a story :
6 Once upon a time i got a name and it was password of something i was
  listening.
7
8
9 soo just listen it carefully.
10

3] After reading the text we get some idea that the other image is not really a .png also the accusation of the .jpeg file also comes true that the .png file is manipulative.Soo as its a .png file and its not really png soo we get should remember the zip-png concept in windows(or we can search online) that we can hide zip file in png. Here you should get that its a cross-platform question.

soo Just extract normally.
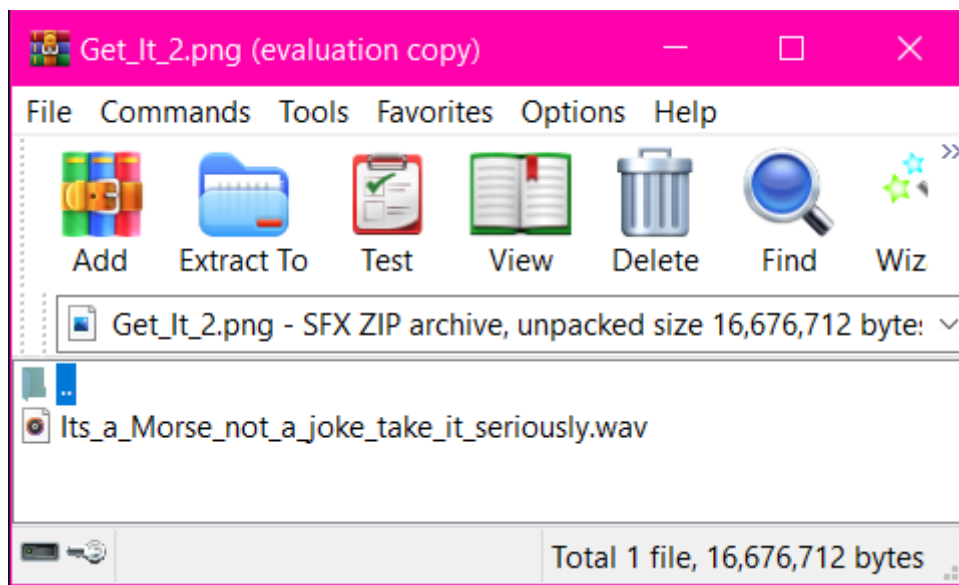
4] Here you get soo many hints that the audio file is morse,

```
### 1. The name of wav file.
### 2. As told above in nothing.txt that listen carefully.
### 3. Also the beeps in it.
```

5] Decode it in any online decoder you will get this:

Filename:
"Its_a_Morse_not_a_joke_take_it_seriously.wav"

REVERSETHEAUDIOANDYOUSHOULDFINDNAMEOFPROTAGONI
ST.ITOLDYOUTHATSTORYINPNGFILE.IIEEUITIEIDEEMETEEA
EERSEEEEETEEEEIEEESHEIEIFNEEEEENEIEEHEEIATEEIST5SE
IEEEEIEETEETEUEEEEIETEEEIETERIIEEEEFESEEIEESSEEESI
ESEIEIEUIEĘEIENETFEEIHEEEEEIIEEEEEIESEETTBESEEEINEE
EET <BT> IE

Decoded message: R E V E R S E T H E A U D I O A N D Y O U S H O U L D F I N D N A
M E O F P R O T A G O N I S T . I T O L D Y O U T H A T S T O R Y I N P N G F I L E . I I E
E U I T I E I D E E M E T E E E A E E R S E E E E E T E E E E I E E E S H E I E I F N E E E E E
N E I E E H E E I A T E E I S T 5 S E I E E E E I E E T E E T E U E E E E E I E T E E E I E T E
R I I E E E E F E S E E I E E S S E E E S I E S E I E I E U I E Ę E I E N E T F E E I H E E E E
I I E E E E E I E S E E T T B E S E E E I N E E E E T I E

Here we can understand that R E V E R S E T H E A U D I O A N D Y O U S H O U L D F I
N D N A M E O F P R O T A G O N I S T . I T O L D Y O U T H A T S T O R Y I N P N G F I
L E . this is decoded message

REVERSE THE AUDIO AND YOU SHOULD FIND NAME OF PROTAGONIST .I TOLD
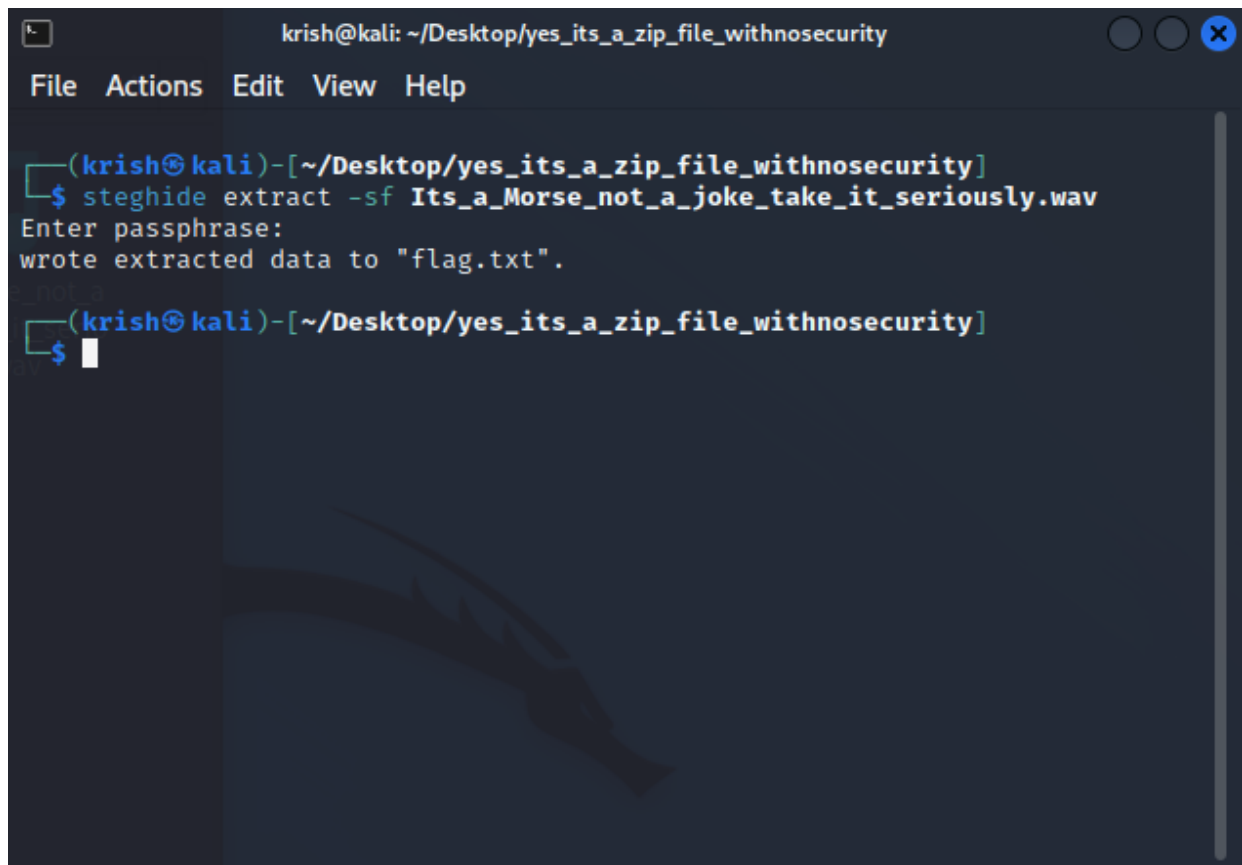YOU THAT STORY IN PNG FILE.

Here you should understand that and remember that i told you story in JEPG file not in
PNG(I just hinted it).

6] Reversing the audio we and converting it to text we get :

```
she humiliated me.
She owes me.
You're not God jimmy.
You didn't make her the destroyer.
So I'm gonna punish you.
You back off,
you freak.
I mean it.
I am not going to jail for that bitch.
No chance!
Listen to Lucifer.
Back off.
Told you it's fine.
I'm immortal.
Why did you do that?
He was gonna kill you.
No,
no,
no,
no,
no,
no.
You just you just let him off too easy.
He needs to pay.
He needs to suffer.
It is to feel the pain,
not escape it.
Don't worry.
I'm sure he's going.
The pain's coming.
No,
no,
it's not actually.
And you know why?
Because I'm here.
Please don't kill me.
Oh,
you're gonna wish that's all I did to you.
```

and searching the sentences and also listening the audio in it we get name of protagonist is lucifer form webseries Lucifer.

7] As I hinted you in story that "Once upon a time i got a name and it was password of something i was listening." here you should understand that you are listening to .wav file and name is its password mean protagonist name u found in audio i.e. lucifer. again its a wav file soo txt can be hidden by steghide.so extract it.

8] You ger the flag.txt file.
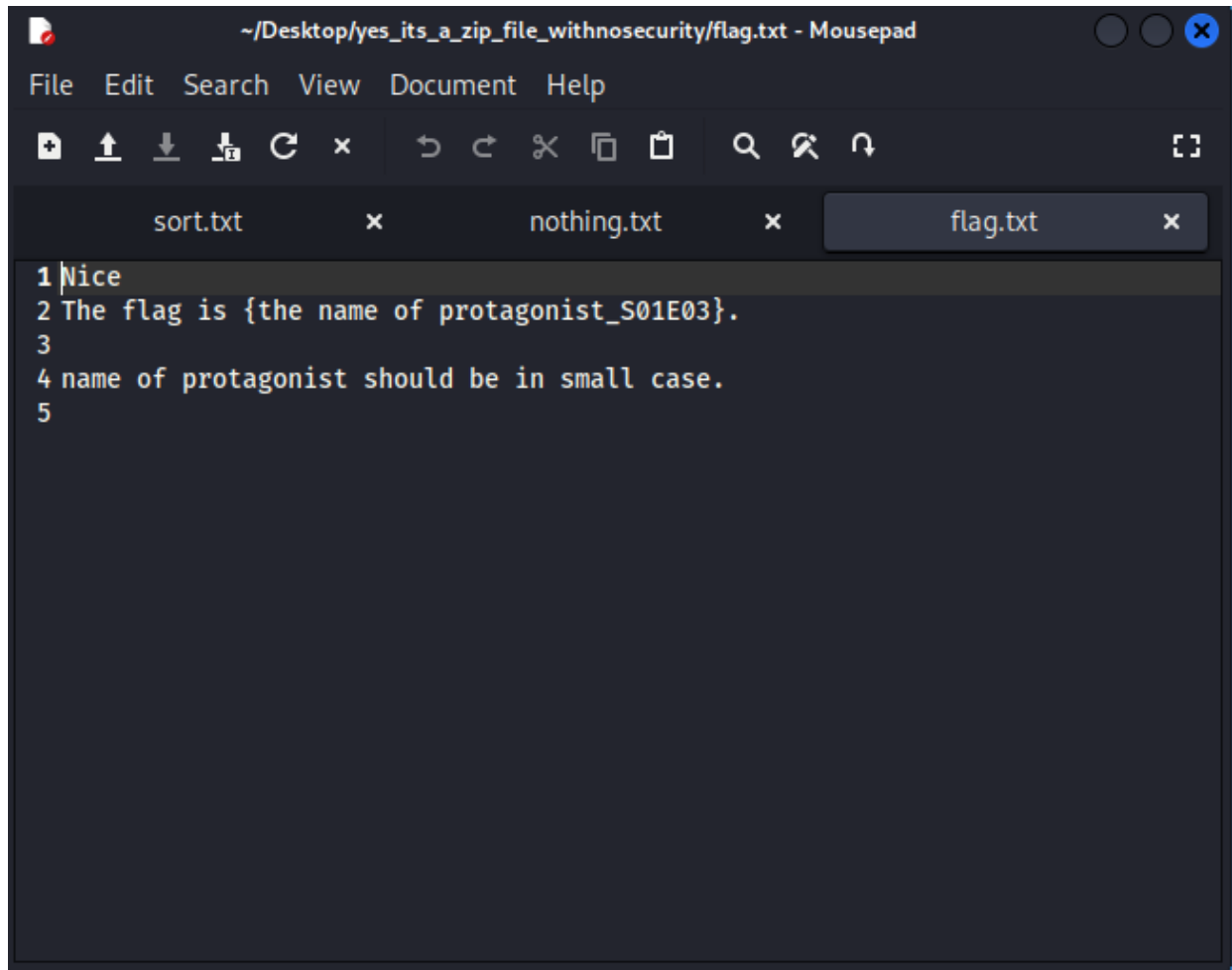
The flag is {the name of protagonist_S01E03}.

name of protagonist should be in small case.

Soo the flag will be : "lucifer_S01E03"