HackTheBox-Beatles

原创

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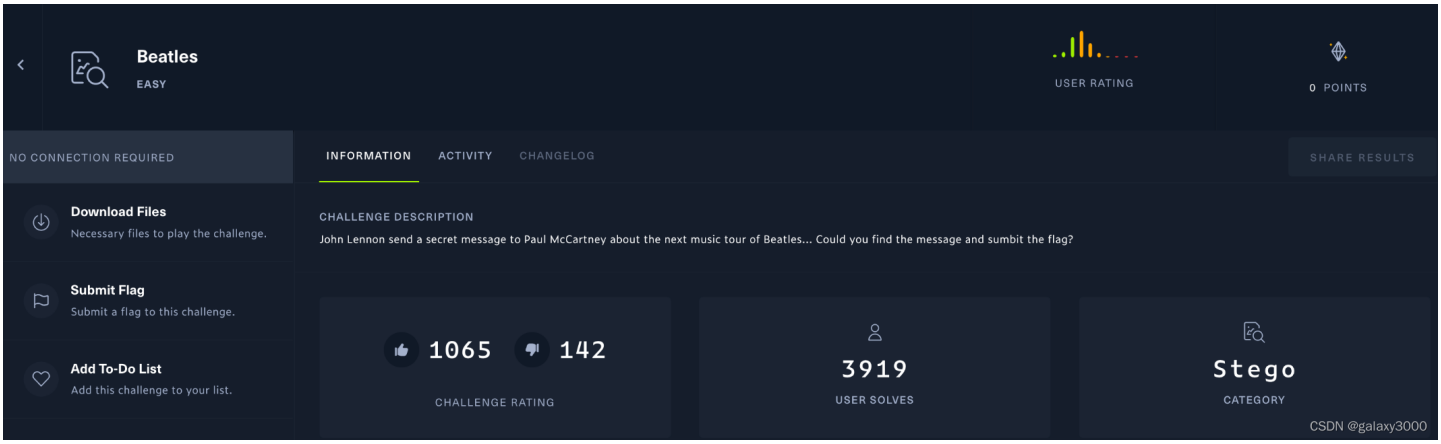
概述

HackTheBox 网站CTF靶场杂项（Misc）相关题目Beatles，题目地址https://app.hackthebox.com/challenges/beatles，主要考察图片隐写术、zip压缩包与rot13替换式密码等综合知识点。



解题

题目概述

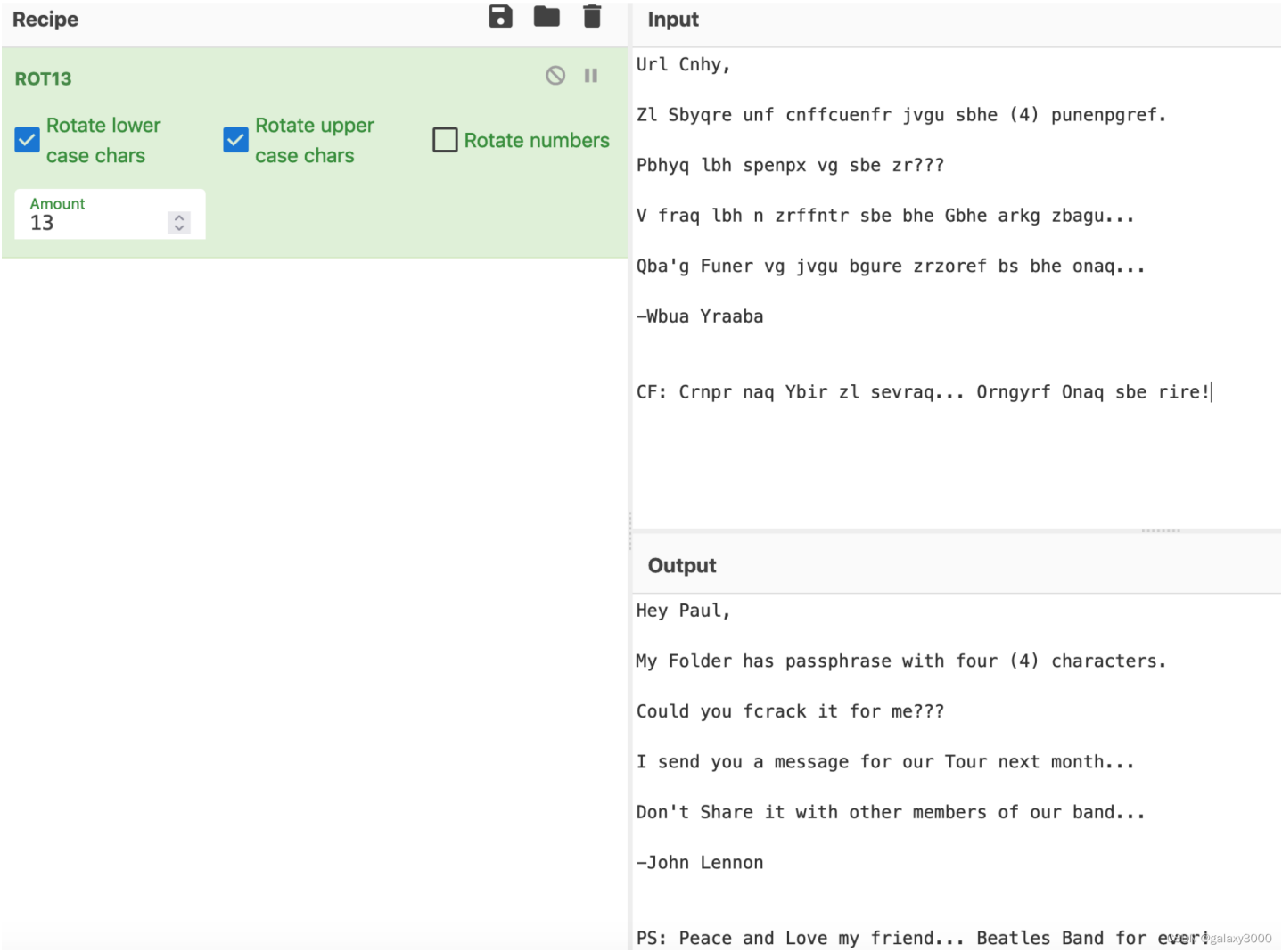
下载附件Beatles.zip，解压缩得到如下文件。

解题过程

查看文件**m3ss@g#_f0r_pAuL**

```
Url Cnhy,

Zl Sbyqre unf cnffcuenfr jvgu sbhe (4) punenpgref.

Pbhyq lbh spenpx vg sbe zr???

V fraq lbh n zrffntr sbe bhe Gbhe arkg zbagu...

Qba'g Funer vg jvgu bgure zrzoref bs bhe onaq...

-Wbua Yraaba


CF: Crnpr naq Ybir zl sevraq... Orngyrf Onaq sbe rire!
```

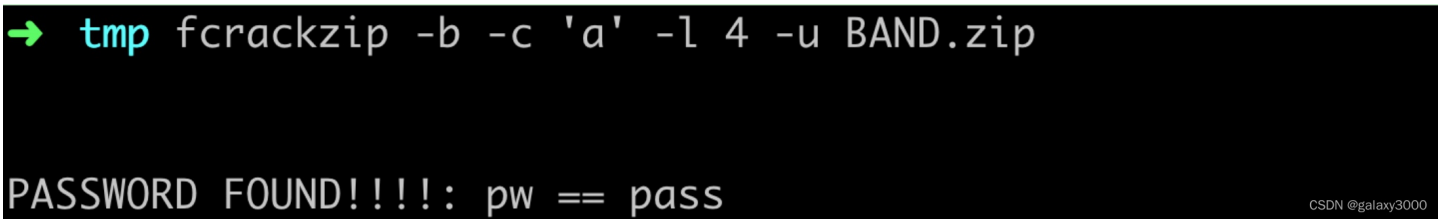
看着像是一段话，但意思不可识别，尝试rot13，得到可识别的文字



核心意思是说密码由4个字符组成。

使用fcrackzip构造4位字符密码破解zip压缩包。

```
fcrackzip -b -c 'a' -l 4 -u BAND.zip
```



解压缩得到图片BAND.JPG

使用steghide提取，使用密码`pass`无效，使用图片文字`THEBEATLES`成功

```
➜  tmp steghide extract -sf BAND.JPG
Enter passphrase:
wrote extracted data to "testabeatle.out".
```

使用`file`查看文件类型，为elf文件

```
➜  tmp file testabeatle.out
testabeatle.out: ELF 64-bit LSB shared object, x86-64, version 1 (SYSV), dynamically linked, interpreter /lib64/ld-linux-x86-64.so.2, for GNU/Linux 2.6.32, BuildID[sha1]=ca68ea305ff7d393662ef8ce4e5eed0b478c8b4e, not stripped
```

使用逆向框架radare2查看文件中的字符串

```
➜  tmp r2 testabeatle.out
[0x000005a0]> iz
[Strings]
nth paddr      vaddr      len size section type  string
―――――――――――――――――――――――――――――――――――――――――――――――――
0   0x00000878 0x00000878 62  63   .rodata ascii Hey Paul! If you are here... Give my your favourite character!
1   0x000008c0 0x000008c0 105 106  .rodata ascii Ok Paul... A little challenge for you mate, cause last month som
eone crazy man hacked...WTF! Let's Begin!
2   0x00000930 0x00000930 109 110  .rodata ascii ##########################################Challenge###############
##########################################
3   0x000009a0 0x000009a0 33  34   .rodata ascii Tell me PAul! The result of  5+5?
4   0x000009c8 0x000009c8 64  65   .rodata ascii Ok!ok! it was easy... Tell me now... The result of: 5+5-5*(5/5)?
5   0x00000a10 0x00000a10 73  74   .rodata ascii Last one! The result of: (2.5*16.8+1.25*10.2+40*0.65+1.5*7.5+1.2
5*3.2):40
6   0x00000a60 0x00000a60 38  39   .rodata ascii Hey Paul! nice!!! this is  the message
7   0x00000a88 0x00000a88 180 181  .rodata ascii VGhlIHRvdXIgd2FzIGNhbmNlbGVkIGZvciB0aGUgZm9sbG93aW5nIG1vbnRoLi4u
IQ0KDQpJJ2xsIGdvIG91dCBmb3IgZGlubmVyIHdpdGggbXkgZ2lybGZyaWVuZCBuYW1lZCBZb2NvISA7KQ0KDQpIVEJ7UzByUnlfTXlfRlIxM25EfQ0K
8   0x00000b40 0x00000b40 105 106  .rodata ascii WTF! You are not Paul!! SOS SOS SOS HACKER HERE!! I will call th
e police someone want to steal my data!!!
9   0x00000bb0 0x00000bb0 116 117  .rodata ascii ##########################################END OF CHALLENGE########
##################################################
```


得到

```
VGhlIHRvdXIgd2FzIGNhbmNlbGVkIGZvciB0aGUgZm9sbG93aW5nIG1vbnRoLi4uIQ0KDQpJJ2xsIGdvIG91dCBmb3IgZGlubmVyIHdpdGggbXkgZ2lybGZyaWVuZCBuYW1lZCBZb2NvISA7KQ0KDQpIVEJ7UzByUnlfTXlfRlIxM25EfQ0K
```

base64解码得到flag

```
➜  tmp rax2 -D 'VGhlIHRvdXIgd2FzIGNhbmNlbGVkIGZvciB0aGUgZm9sbG93aW5nIG1vbnRoLi4uIQ0KDQpJJ2xsIGdvIG91dCBmb3IgZGlubmVyIHdpdGggbXkgZ2lybGZyaWVuZCBuYW1lZCBZb2NvISA7KQ0KDQpIVEJ7UzByUnlfTXlfRlIxM25EfQ0K'
The tour was canceled for the following month...!

I'll go out for dinner with my girlfriend named Yoco! ;)

HTB{S[redacted] D}
```