

2021 陇原抗疫 WriteUp

原创

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75 篇文章 28 订阅

订阅专栏



buuctf

15 篇文章 2 订阅

订阅专栏

Place	Team	Score	Solves	CRYPTO				MISC				PWN				REVERSE				WEB					
				mealyroommen	easytask	Cheerful for Prince	打劫陈嘉庚	soEasyCheckin	SOS	EasyStag	ez_panic	checkin	bbabab	Magic	h3xp14ss	httpd	EasyRe	freelme	power	Exp/RE_keweng	Eat_something	O	CheckinY	easy0yph0	EasyJaba
1	VN战队	9886	16	▶	▶	▶	▶	▶	▶				▶	▶	▶		▶	▶	▶	▶			▶	▶	▶
2	n03tAck战疫	8412	14	▶	▶	▶	▶	▶	▶	▶			▶	▶			▶	▶	▶	▶					▶
3	D1no	8067	14	▶			▶	▶	▶				▶	▶			▶	▶	▶	▶	▶	▶	▶	▶	▶
4	Light1ng	8060	14	▶	▶		▶	▶	▶				▶				▶	▶	▶	▶		▶	▶	▶	▶
5	Torchwood	8050	14	▶			▶	▶	▶				▶	▶	▶		▶	▶	▶	▶		▶	▶	▶	▶
6	AAA	7146	12	▶		▶		▶					▶	▶			▶	▶	▶	▶	▶	▶	▶	▶	▶
7	USTC-NEBULA	6432	10	▶	▶	▶							▶				▶	▶	▶	▶	▶	▶	▶	▶	▶
8	广外女生	6073	11				▶	▶					▶	▶	▶		▶	▶	▶			▶	▶	▶	▶
9	我真的好饿!	5347	11	▶			▶	▶	▶				▶	▶	▶		▶	▶	▶			▶			▶

希望疫情早日结束

注: 打*的是赛后出的

总WP: <https://wp.n03tack.top/posts/14620/>

Misc

soEasyCheckin

base32, 但有问题, 倒数出现了0\$, 0→O,\$→S, 得到一串hex。

结果hex那里又有问题, 具体是出在 `83¥6988ee` 这里

根据规律, 每6个字节的第1个字节为e, 然后把 `¥` 替换成 `e`

得到社会主义核心价值观编码, 但是还是有个地方是错误的, 中间有一段为: 和谐斃明平

然后把他那个斃随便改一下, 我改的“富强”

解码得到的 `SET{Qi2Xin1Xie2Li4-Long3Yuan0Zhan4Yi4}`

根据拼音, 可以知道是Yuan2

所以最终flag为:

```
SET{Qi2Xin1Xie2Li4-Long3Yuan2Zhan4Yi4}
```

打败病毒

游戏打开之后发现在末地, 打完末影龙后没有反应, flag藏在终末之诗里, 于是直接去找文本

在.minecraft/version/陇原战“疫”.jar下

将其改为zip, 找到assets/minecraft/texts/end.txt, 得到11F9sACbBBBWKtICIYDtNF2yIEfThXdfIGPxF

base62解码即可

```
SETCTF{Fi9ht1ng_3ItH_V1rUs}
```

SOS

拨号音, 踩正确的来组合出flag

用手机录音, 然后m4a格式转wav格式, 之后DTMF, 因为录的总有问题, 所以一共录了三次

```
- DTMF numbers: 630AB1C75
PS F:\aaaCTF\aaa工具\DTMF拨号音识别手机键盘密码> .\dtmf2num.exe .\4skj2-ydens.wav

DTMF2NUM 0.1c
by Luigi Auriemma
e-mail: aluigi@autistici.org
web: aluigi.org

- open .\4skj2-ydens.wav
  wave size      815104
  format tag     1
  channels:      2
  samples/sec:   48000
  avg/bytes/sec: 192000
  block align:   4
  bits:          16
  samples:       407552
  bias adjust:   -162
  volume peaks:  -13878 13878
  normalize:     18889
  resampling to: 8000hz

- MF numbers:    7

- DTMF numbers: 663300AB1C755
PS F:\aaaCTF\aaa工具\DTMF拨号音识别手机键盘密码> .\dtmf2num.exe .\aq75x-ar9ae.wav

DTMF2NUM 0.1c
by Luigi Auriemma
e-mail: aluigi@autistici.org
web: aluigi.org

- open .\aq75x-ar9ae.wav
  wave size      3616768
  format tag     1
  channels:      2
  samples/sec:   48000
  avg/bytes/sec: 192000
  block align:   4
  bits:          16
  samples:       1808384
  bias adjust:   -58
  volume peaks:  -14155 14155
  normalize:     18612
  resampling to: 8000hz

- MF numbers:    77

- DTMF numbers: 6688330AB1C775
PS F:\aaaCTF\aaa工具\DTMF拨号音识别手机键盘密码> .
```

前面都没出现8，这次终于出现了8，所以应该是6830AB1C75，得到flag



EasySteg

哥哥球球了别套了再套下去套神都哭了呜呜呜

JK为单图盲水印(java)，用imagein也行的



然后在flag.rar的注释里面有一串tab和space组成的密文，转space转0，tab转1

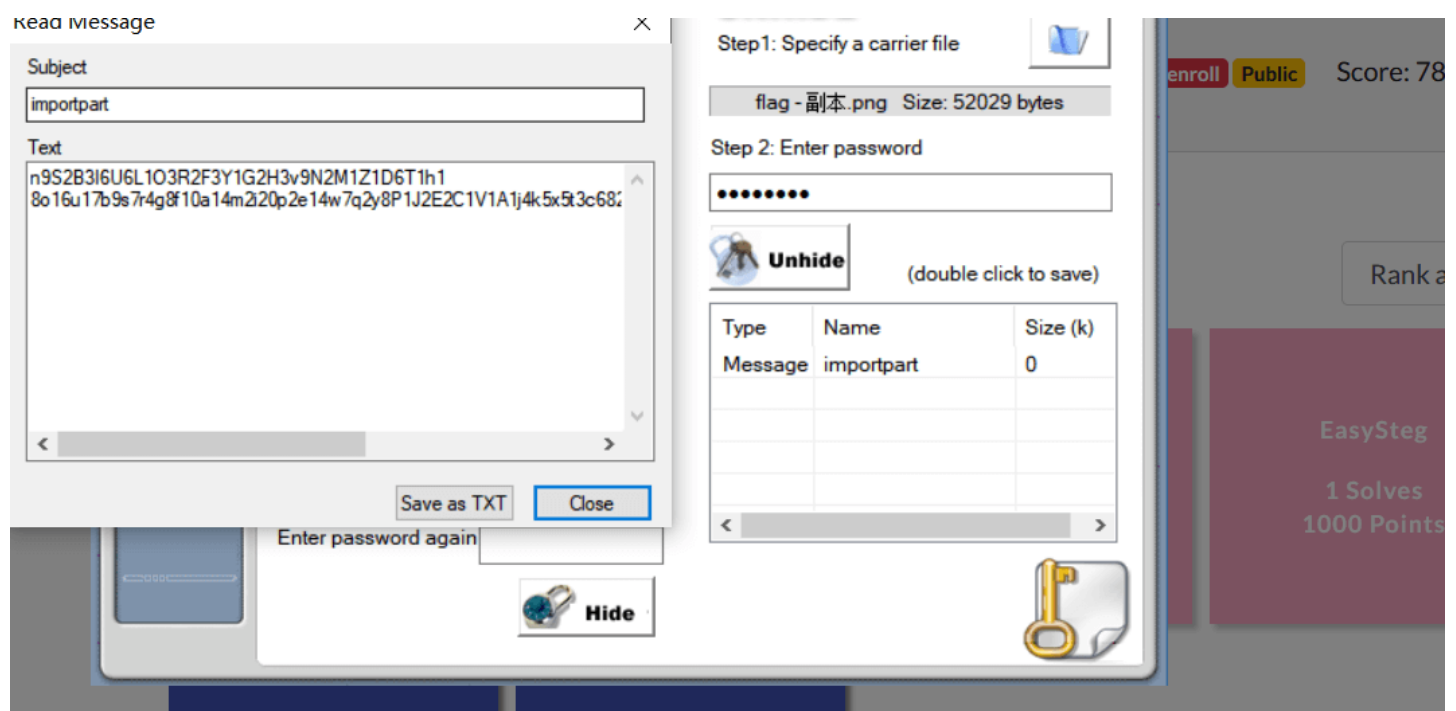
然后解压，在flag.png的末尾有另一个png，那个png明显有flag字样，用stegsolve反一下色即可看清



flag{156cca8e

然后还在这个图片后面发现了明显的oursecret的特征，结合上面的base64(-b81b-)

得到oursecret的密码为LWI4MWIt



除了数字以外，没有重复字符，里面还有{}，结合01串，得出为哈夫曼编码，利用红明谷的脚本即可解码

对应关系看脚本即可理解

```
import copy
import re

def dfs(c, d):
    if len(c.keys()) == 1:
        # g = {'j':29, 'z':31, '7':25, 'e':31, 'l':23, '6':37, '4':32, 'p':38, 'h':27, 'g':26, 'x':28, 'i':25, 'u':27, 'n':25
```

```
, '8':36, '0':24, 'o':23, 'c':28, 'y':24, '1':29, 'b':26, 'm':27, '2':28, 'v':25, 'd':33, 'f':28, '9':33, 't':21, 'w':22, 'a':31
, 'r':24, 's':16, 'k':32, '5':25, 'q':23, '3':32, '{':1, '-':4, '}':1,}

# num = 0
# for k in g.keys():
#     num += g[k] * Len(d[k])
# print(num)
# print(c, d)

g = {}
for k in d.keys():
    g[d[k]] = k

a = '11101111100010000111100001101000110111110011010001111011110001010011111011100110111110001100011111
111110101110001111110011100001101000111101001101111100111011110001000011100111001111011100011111100111011111011
011101011110111110101101101101000110101011101011111110111101110111011101011101011101011101000111001000110101011
1101011111011011011110001101011101011111011011011100100101101111010011101111101111011101110100111101011
1101111010110010011110010101101110111110010101101001001101111100111100110100011110111001011001110000111
000011110000110111110011000011100001101100110100011100001111110011110000110110011010001110011101100001101100010
0111111110010110011010001111011110110010011011111000001111000100100010011111011101101111110110100100100101101
110111110110110111100110100101111110011110110110110111101110011110111011011011010000110111111
0011111001111001110111110011011011011010011011111010011010001110100110110111101110111011101110110
10010010111000000111100101011001000101100100000011001011001001000001111001100100101110000001111001010110010111
1111100101000101000101001000001111001100100101011000000111100101011001000101100101000101000011110010000011110011
0010010101100000011110010101100101010010101100101010000011110011001001010110000001111001010110010011001001010
1100000110111110010000011110011001001010110000001111001010001010001101111100100000011001010100100000111100110010
0101001010110000001111001011001000100010010000111111000101001000001111001100100101011000000111100101011001011
1111110010100010110001000100100000111100110010010101100000011110010100010100011011111001000000110010101001000001
1110011001001010110000001111001010110010011001001010110000011011111001000001111001100100101011000000111100101011
00100010110010000001100101100100100000111100110010010101100000011110010100010100010101100000110111110010000
01111001100100101011000000111100101001010110010000011001011001001000001111001100100101011000000111100
10101100101111111001010001010001010010000011110011001001010110000001111001010110010001001000011111110001010
010000011110011001001010110000001111001010110010001011001000001100101100100100000111100110010010101100000011110
01010110010101001000000110010111111100100000111100110010010101100000011110010101100100010110010000011001011001
00100000111100110010010101100000011110010101100100010001001001000100011111110001010010000011110011001001010110000
001111001010110010101001000001100101111111001000001111001100100101011000000111100101000101000101011000001
101111100100000111100110010010101100000011110010100010100011011111001000001100000011110010000011110011001001010
11000000111100101000101000000100101000101000011111011010011110011101011110111000010110101101011110100011111001
101111101011111011010101001110111101100100000101110110101110110111001100111000110001111100111001000001011
110001011110111111101101101110000111010000101111110001100000110001110010100100000110000101110000100010110111100
00010111001111111000011101101011110100110111110100010010111110110101111100111110011100011000010000110111
11000001111100010011001110111101111110111110010001110000111011011100001110110111100111011111101101101011010001
111100010010111111011110000010000010111001011110001101011010001111101111001110101111010111011100100110011101
11110011110111110000001001001101001101111110110101111011110011101001101111011101011110011100111000111000
00011010010111111000100110011101111101011110111100111010011011110101001101110111010111100111000111000
```


可以知道是brainloller

然后010打开，提示解出来是后面steghide的密码，并且CRC报错，用爆CRC的脚本一爆就发现正确宽度为14，高为12

用bftools解，bftools.exe decode brainloller bf.png，得到的bf再去解码得到密码Hello Worl

但是解不出来，于是用我6月赛写的脚本去解https://blog.csdn.net/qq_42880719/article/details/117479024

解出来是Hello Worle!，我猜是Hello World!

结合题目新上的hint，得到的密码我试过有

```
Hello Worl
Hello_Worl
Hello Worle!
Hello_Worle!
Hello World!
Hello_World!
Hello World
Hello_World
```

可惜都不对，通过出题人的朋友问了下出题人，他朋友也表示解不出来，但是出题人是能解出来的(好像用的是本地的附件)所以我总感觉是比赛题目附件的问题？

```
(root@kali)~[~/Desktop]
# steghide extract -sf 2.jpg -p Hello_Worl
wrote extracted data to "flag.txt".
```

```
PS F:\aaaCTF\aaa工具\00工具中的好工具(有重复)\aCTFtools\隐写\图像隐写\steghide> .\steghide.exe extract -sf .\00000000.jpg -p Hello_Worl
steghide: could not extract any data with that passphrase!
PS F:\aaaCTF\aaa工具\00工具中的好工具(有重复)\aCTFtools\隐写\图像隐写\steghide>
```

—17:02—:经过一个半小时的积极反馈

```
(root@kali)~[~/桌面]
# md5sum brainlol.png
5c56bca27854e873234fc6f4a2248ba1 brainlol.png

(root@kali)~[~/桌面]
#

(root@kali)~[~/桌面]
# md5sum brainlol.png
39e733c83a3b34437db734d75fd7c04f brainlol.png

(root@kali)~[~/桌面]
```


59了
16:59:17

附件.zip (1,001KB)
成功存至C:\Users\mumuzi\Desktop\...

打开 打开文件夹 重新下载 转发

17:00:05
没了
17:00:56

flag.txt - 记事本
件(F) 编辑(E) 格式(O) 查看(V) 帮助(H)
ig{46e8b644-7e85-4f54-8ac2-b6528d935529}



就bftools.exe解出来的把空格替换为下划线Hello_Worl解steghide，得到个文本
后面是一个熊曰，然后就完事

Re

EasyRe

flag就在常量里面。。

```
flag{fc5e038d38a57032085441e7fe7010b0}
```