




攻防世界--MISC高手进阶区（持续更新）

原创

[IMWJING](#)  于 2020-03-26 14:30:32 发布  6862  收藏 21

分类专栏: [CTF](#)

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wireshark-1

下载附件解压缩后为一个.pcap的数据包，用wireshark打开，筛选HTTP数据包，找到post请求包，追踪TCP流找到password字段得到flag。

Training-Stegano-1

下载附件为一个图片，图片特别小，直接用winhex打开，看到passwd:steganol，直接提交steganol，成功。

János-the-Ripper

下载附件解压缩为一个“misc100”的文件，用winhex打开，文件头为PK，文件为一个zip压缩包，添加.zip后缀，解压缩需要密码，文件中无密码提示，采用暴力破解，得出密码为“fish”，解压缩后得到flag。

Test-flag-please-ignore

下载附件解压缩为一个“misc10”的文件，直接打开为“666c61677b68656c6c6f5f776f726c647d”，猜想为16进制转字符串，通过 <https://tool.lu/hexstr> 进行转换得到flag。

What-is-this

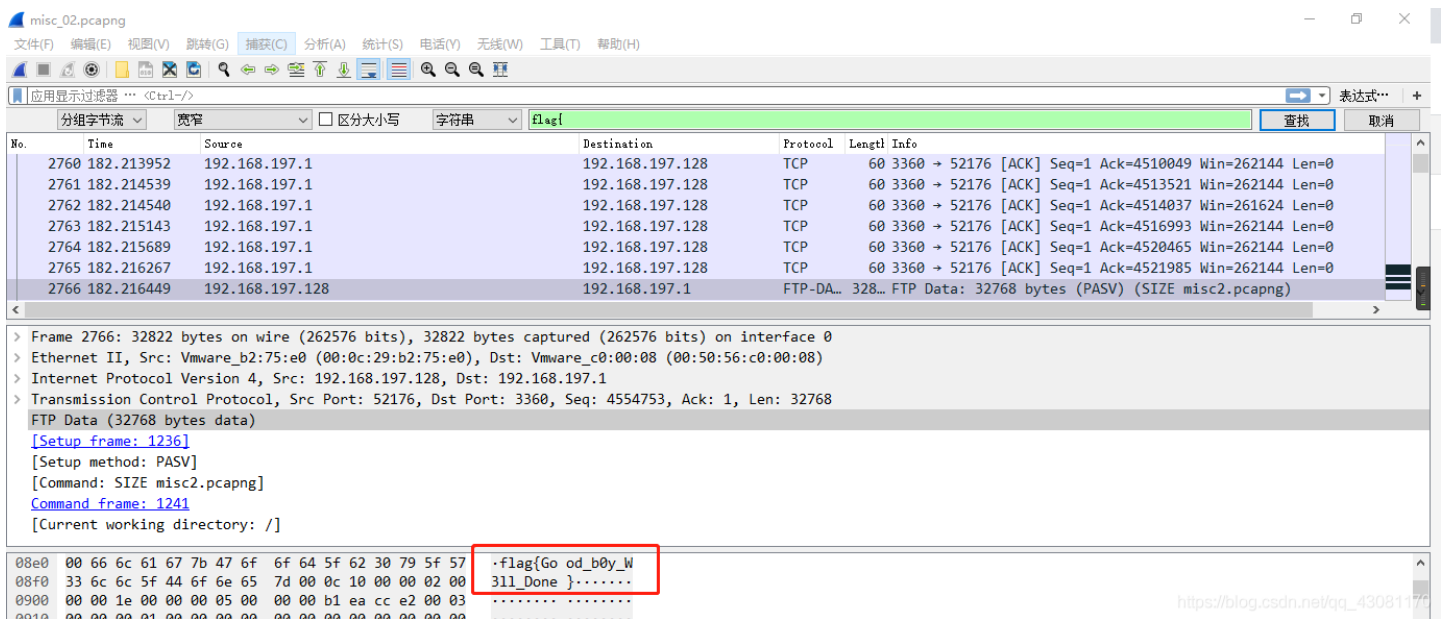
下载附件解压缩得到两个图片，将两张图片进行合并，



得到flag。

embarrass

下载附件解压缩为.pcapng的文件，用wireshark打开，按照分组字节流搜索字符串flag{得到flag}。



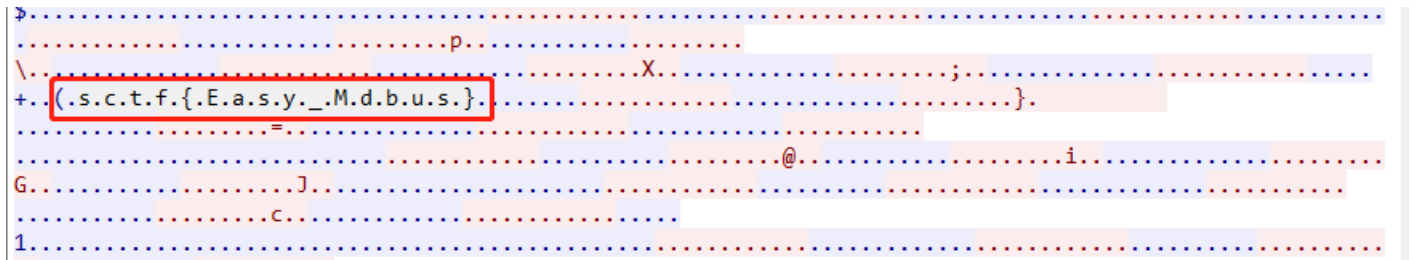
No.	Time	Source	Destination	Protocol	Length	Info
2760	182.213952	192.168.197.1	192.168.197.128	TCP	60	3360 → 52176 [ACK] Seq=1 Ack=4510049 Win=262144 Len=0
2761	182.214539	192.168.197.1	192.168.197.128	TCP	60	3360 → 52176 [ACK] Seq=1 Ack=4513521 Win=262144 Len=0
2762	182.214540	192.168.197.1	192.168.197.128	TCP	60	3360 → 52176 [ACK] Seq=1 Ack=4514037 Win=261624 Len=0
2763	182.215143	192.168.197.1	192.168.197.128	TCP	60	3360 → 52176 [ACK] Seq=1 Ack=4516993 Win=262144 Len=0
2764	182.215689	192.168.197.1	192.168.197.128	TCP	60	3360 → 52176 [ACK] Seq=1 Ack=4520465 Win=262144 Len=0
2765	182.216267	192.168.197.1	192.168.197.128	TCP	60	3360 → 52176 [ACK] Seq=1 Ack=4521985 Win=262144 Len=0
2766	182.216449	192.168.197.128	192.168.197.1	FTP-DA...	328...	FTP Data: 32768 bytes (PASV) (SIZE misc2.pcapng)

```
> Frame 2766: 32822 bytes on wire (262576 bits), 32822 bytes captured (262576 bits) on interface 0
> Ethernet II, Src: Vmware_b2:75:e0 (00:0c:29:b2:75:e0), Dst: Vmware_c0:00:08 (00:50:56:c0:00:08)
> Internet Protocol Version 4, Src: 192.168.197.128, Dst: 192.168.197.1
> Transmission Control Protocol, Src Port: 52176, Dst Port: 3360, Seq: 4554753, Ack: 1, Len: 32768
  FTP Data (32768 bytes data)
    [Setup frame: 1236]
    [Setup method: PASV]
    [Command: SIZE misc2.pcapng]
    [Command frame: 1241]
    [Current working directory: /]

08e0  00 66 6c 61 67 7b 47 6f  6f 64 5f 62 30 79 5f 57  .flag{Go od_b0y_W
08f0  33 6c 6c 5f 44 6f 6e 65  7d 00 0c 10 00 00 02 00  311_Done }.....
0900  00 00 1e 00 00 05 00 00  00 00 b1 ea cc e2 00 03
0910  00 00 00 01 00 00 00 00  00 00 00 00 00 00 00 00
```

神奇的Modbus

下载附件是一个后缀为.pcapng的文件，用wireshark打开，根据题目“神奇的Modbus”搜索协议为“Modbus/TCP”协议的数据流，寻找flag无果，追踪TCP流，看到sctf{Easy_Mdbus}



直接提交显示错误，根据modbus猜想flag为sctf{Easy_Modbus}，提交成功。

MISCall

下载附件，是一个不知道什么后缀的文件，放进kali，binwalk查看文件信息，是一个zip压缩包，

```
root@kali:~/桌面# binwalk d02f31b893164d56b7a8e5edb47d9be5
```

DECIMAL	HEXADECIMAL	DESCRIPTION
0	0x0	bzip2 compressed data, block size = 900k

解压缩得到一个 ctf 的文件夹，

文件夹里有两个文件，一个 .git 的文件夹和一个 flag.txt 的文本文档，打开 flag.txt 没找到flag，

```
flag.txt - 记事本
文件(F) 编辑(E) 格式(O) 查看(V) 帮助(H)
Nothing to see here, moving along...
```

只能从 .git 下手，使用 git stash list: 查看stash了哪些存储

git stash show: 显示做了哪些改动；

```
root@kali:~/桌面/ctf# git stash list
stash@{0}: WIP on master: bea99b9 Initial commit
root@kali:~/桌面/ctf# git stash show
flag.txt | 25 ++++++-----
s.py     | 4 ++++
2 files changed, 28 insertions(+), 1 deletion(-)
```

git stash apply: :应用某个存储,恢复之前的存储，但不会把存储从存储列表中删除（将原来的flag.txt重命名或删除）。

```
root@kali:~/桌面/ctf# git stash apply
On branch master
Changes to be committed:
  (use "git restore --staged <file> ..." to unstage)
    new file:   s.py

Changes not staged for commit:
  (use "git add <file> ..." to update what will be committed)
  (use "git restore <file> ..." to discard changes in working directory)
    modified:   flag.txt

Untracked files:
  (use "git add <file> ..." to include in what will be committed)
    flag.txt.bak

root@kali:~/桌面/ctf# ls
flag.txt  flag.txt.bak  s.py
```

运行s.py得到flag。

```
root@kali:~/桌面/ctf# python s.py
NCN4dd992213ae6b76f27d7340f0dde1222888df4d3
```

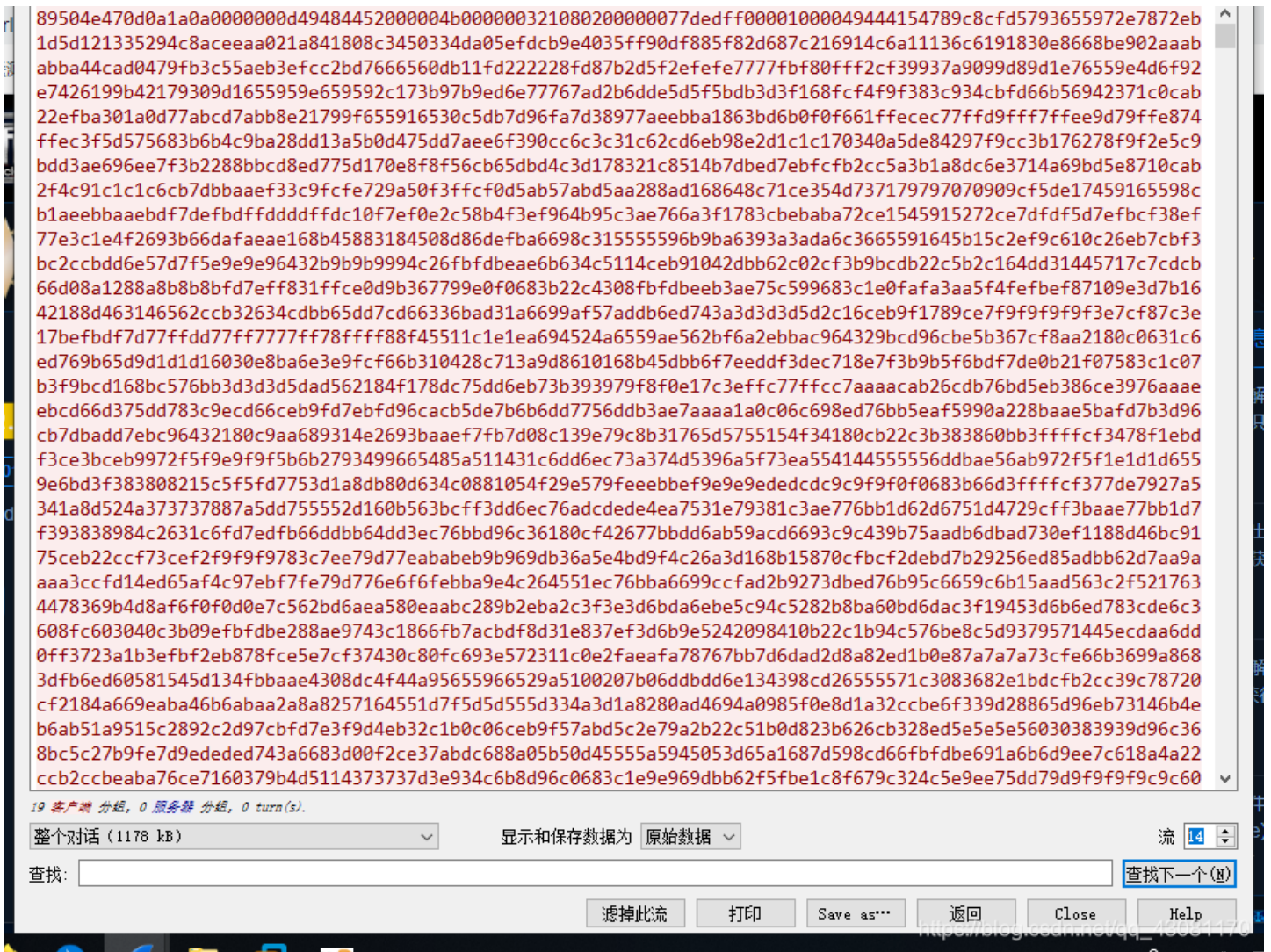
flag_universe

下载附件解压缩是一个pcapng文件，用wireshark打开，追踪TCP数据流，

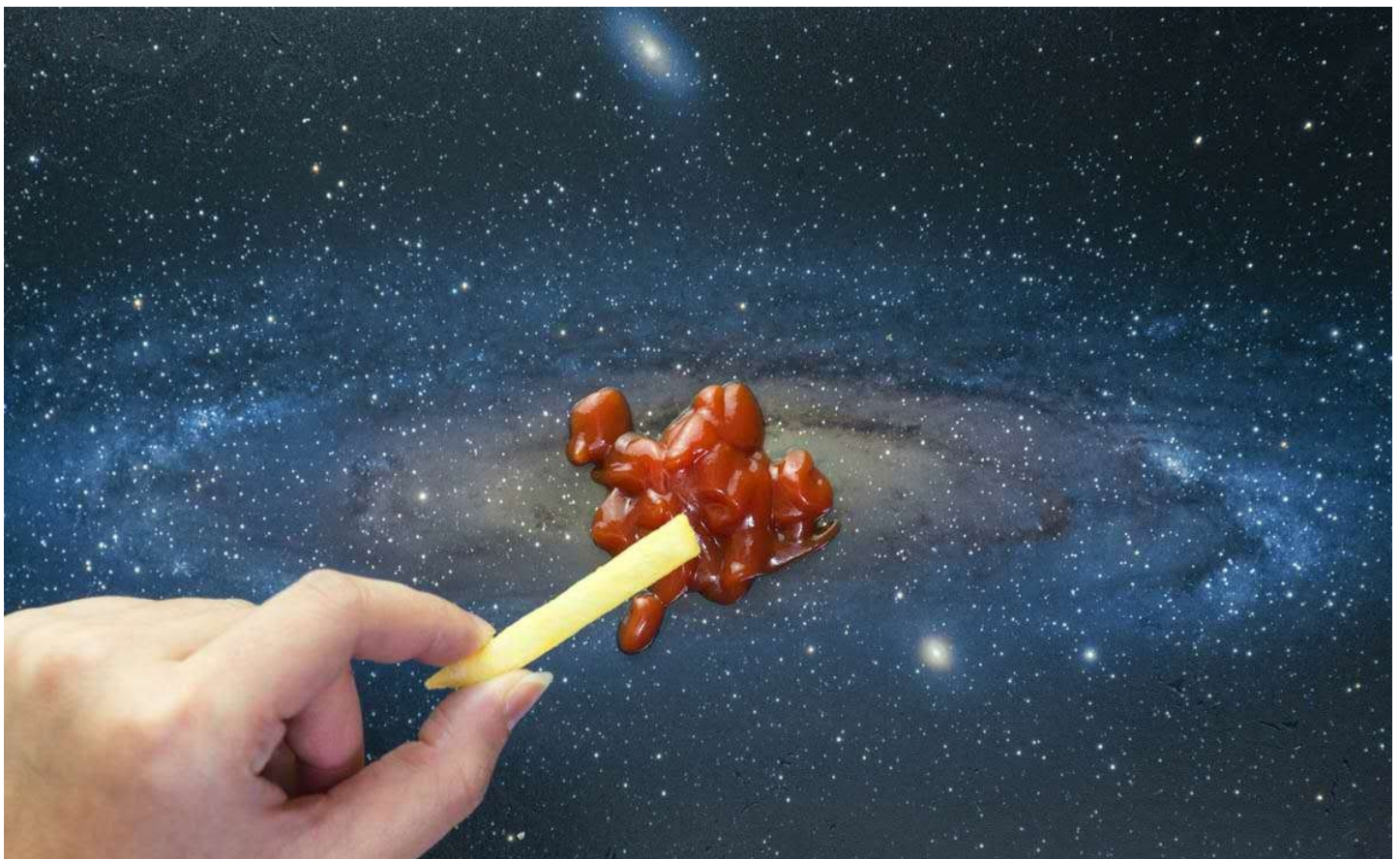
ZmxhZ3tUaGlzIGlzIGZha2UgZmxhZyBoYWwhaGF9

base64解密后flag{This is fake flag hahaha}，是一个假的flag，继续追踪TCP数据流，universe.png中也没有flag，当追踪到第14个TCP数据流时，有一个new_universe.png，将原始数据保存到txt文本文档中，





再复制到winhex中保存为png图片，利用zsteg命令得到flag。



```

root@kali:~/桌面# zsteg 1.png
imagedata      .. text: "\n\n\n111???"
b1,r,lsb,xy    .. text: "F2&*rq.9Qz"
b1,rgb,lsb,xy  .. text: "flag{Plate_err_klaus_Mail_Life}\n"
b3,g,msb,xy    .. file: PGP Secret Sub-key -
b3,b,msb,xy    .. text: "zC`)XUWS"

```

Reverse-it

下载附件，用binwalk分析文件，无隐藏文件

```

root@kali:~/桌面# binwalk 0da9641b7aad4efb8f7eb45f47eaebb2

```

DECIMAL	HEXADECIMAL	DESCRIPTION

root@kali:~/桌面#		

用winhex分析，文件末尾时jpg文

件头的倒序，根据题目reverse-it，将文件内容进行反转，

```

00001DE0  10 00 10 00 00 00 30 00 21 10 70 00 80 00 00 00  .....0.!.p.€...
00001DF0  A2 00 D4 D4 00 00 66 96 87 54 2D 00 1E FF 00 00  e.ÔÔ..f-+T-..ÿ..
00001E00  84 00 84 00 10 10 10 00 64 94 64 A4 01 00 0E FF  ".....d"dR...ÿ
00001E10  8D FF                                     .ÿ

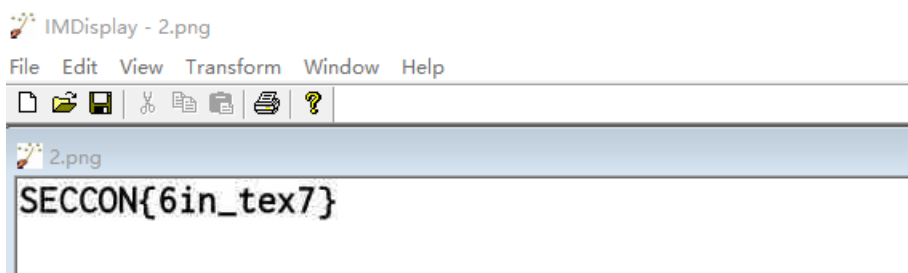
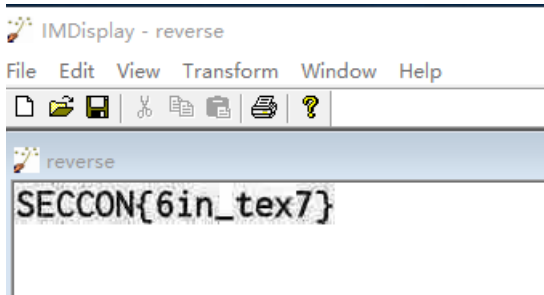
```

通过Linux命令行工具将文件内容进行反转，

xxd -p 原文件 | tr -d '\n' | rev | xxd -r -p > 反转后的文件名，得到一张图片，

SECCON{6in_tex7}

再利用ImageMagick工具将图片进行反转，得到flag。



再见李华

下载附件解压缩是一个图片，图片中有一个MD5值，进行MD5解密，解不出来，

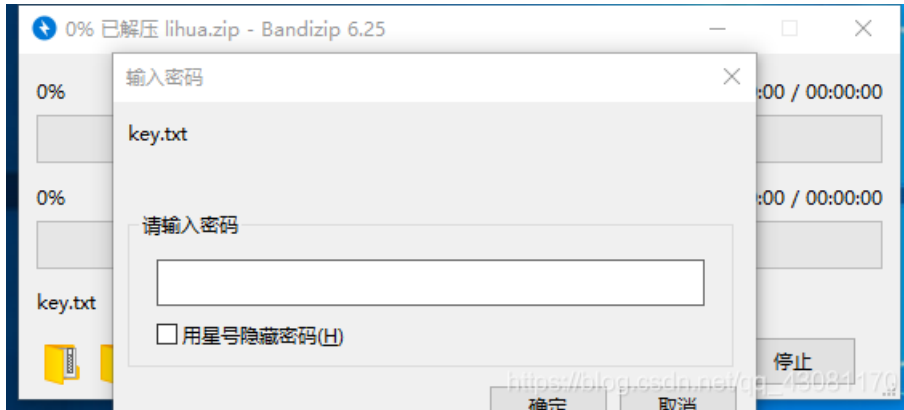


将图片放进kali中，利用binwalk看到图片中有一个压缩包，利用foremost进行文件分离，得到一个压缩包，

```
root@kali:~/桌面# binwalk mail2LiHua.jpg
DECIMAL      HEXADECIMAL  DESCRIPTION
-----
0            0x0         JPEG image data, JFIF standard 1.01
30          0x1E       TIFF image data, little-endian offset of first image directory: 8
19273      0x4B49     Zip archive data, encrypted at least v2.0 to extract, compressed size: 37, uncompressed size: 26, name: key.txt
19436      0x4BEC     End of Zip archive, footer length: 22

root@kali:~/桌面# foremost mail2LiHua.jpg
Processing: mail2LiHua.jpg
| foundat=key.txt m'D
| {CGj h
| vE PK?
*|
```

进行解压缩需要密码，



根据题目描述，不少于1000个字，记得署名，猜测1000个字是四位，署名LiHua，密码组成为四位字符+LiHua

再见李华 最佳Writeup由admin提供

难度系数: ★★2.0

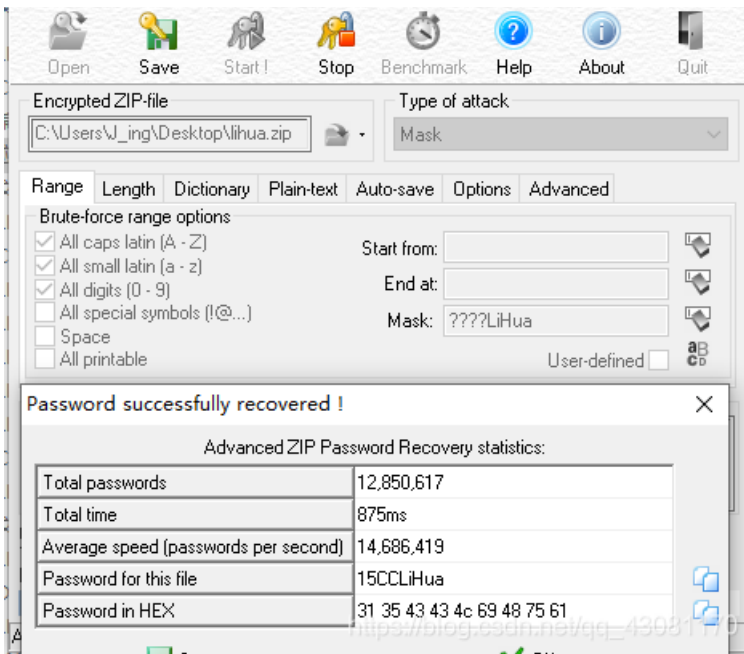
题目来源: ISCC-2017

题目描述: 假如你是李华 (LiHua)，收到乔帮主一封密信，没有任何特殊字符，请输入密码，不少于1000个字。同学，记得署名哦~

利用

AZPR进行爆破，得到密码。





解压缩得到flag。

stage1

下载附件，将png图片用stegsolve打开，Green plane1得到一个二维码，



扫描二维码时十六进制字符，复制到winhex中，

```
Offset(h) 00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F
00000000 03 F3 0D 0A B6 26 6A 57 63 00 00 00 00 00 00 00 .ó..q&jWc.....
00000010 00 01 00 00 00 40 00 00 00 73 0D 00 00 00 64 00 .....@...s....d.
00000020 00 84 00 00 5A 00 00 64 01 00 53 28 02 00 00 00 ..../Z..d..S(....
00000030 63 00 00 00 00 03 00 00 00 08 00 00 00 43 00 00 c.....C..
00000040 00 73 4E 00 00 00 64 01 00 64 02 00 64 03 00 64 .sN...d..d..d..d
00000050 04 00 64 05 00 64 06 00 64 05 00 64 07 00 67 08 ..d..d..d..d..g.
00000060 00 7D 00 00 64 08 00 7D 01 00 78 1E 00 7C 00 00 }.d..}.x..|..
00000070 44 5D 16 00 7D 02 00 7C 01 00 74 00 00 7C 02 00 D].}.|.}|.t..|..
00000080 83 01 00 37 7D 01 00 71 2B 00 57 7C 01 00 47 48 f..7)..q+W|..GH
00000090 64 00 00 53 28 09 00 00 00 4E 69 41 00 00 00 69 d..S(....NiA...i
000000A0 6C 00 00 00 69 70 00 00 00 69 68 00 00 00 69 61 l...ip...ih...ia
000000B0 00 00 00 69 4C 00 00 00 69 62 00 00 00 74 00 00 ...iL...ib...t..
000000C0 00 00 28 01 00 00 00 74 03 00 00 00 63 68 72 28 ..(....t....chr(
000000D0 03 00 00 00 74 03 00 00 00 73 74 72 74 04 00 00 ....t....strt...
000000E0 00 66 6C 61 67 74 01 00 00 00 69 28 00 00 00 00 .flagt....i(....
000000F0 28 00 00 00 00 73 07 00 00 00 74 65 73 74 2E 70 (.s....test.p
00000100 79 52 03 00 00 00 01 00 00 00 73 0A 00 00 00 00 yR.....s....
00000110 01 1E 01 06 01 0D 01 14 01 4E 28 01 00 00 00 52 .....N(....R
00000120 03 00 00 00 28 00 00 00 00 28 00 00 00 00 28 00 ....(....(....(
00000130 00 00 00 73 07 00 00 00 74 65 73 74 2E 70 79 74 ...s....test.pyt
00000140 08 00 00 00 3C 6D 6F 64 75 6C 65 3E 01 00 00 00 ....<module>....
00000150 73 00 00 00 00
```

保存为 .pyc 格式，利用Easy Python

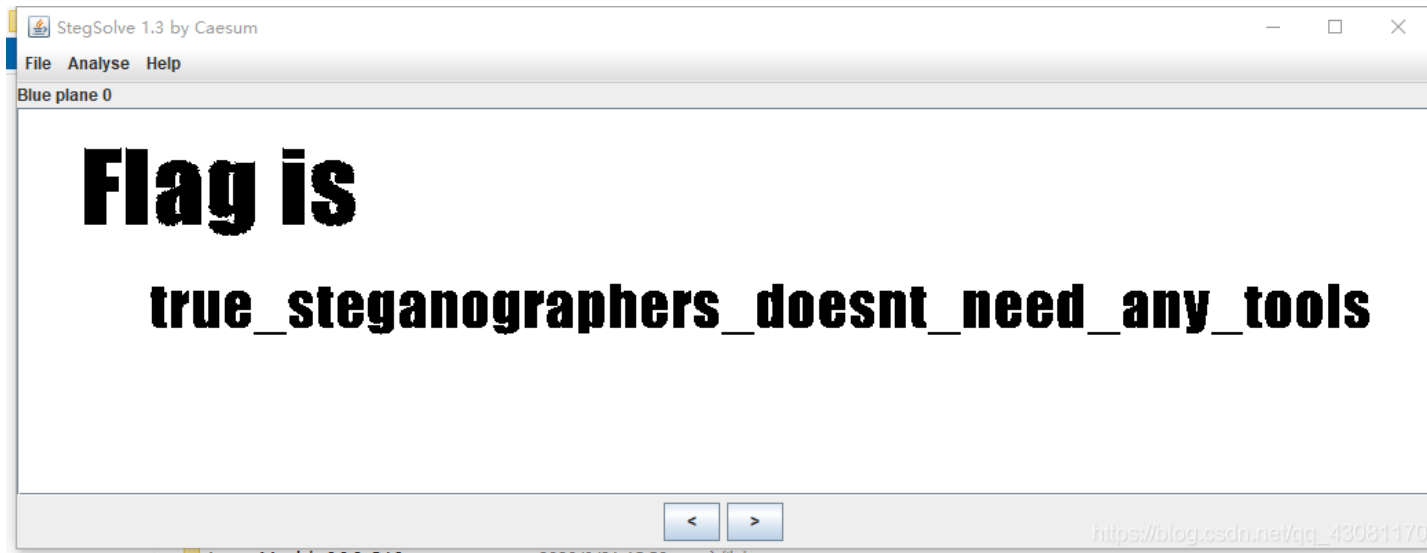
Decompiler进行反编译，用文本工具打开得到源码，整理后运行得到flag。

```
# Embedded file name: test.py
str = [65,108, 112,104,97,76,97,98]
flag = ''
for i in str:
    flag += chr(i)
print flag
```

```
C:\Users\AlphaLab\Desktop>python 1.py
```

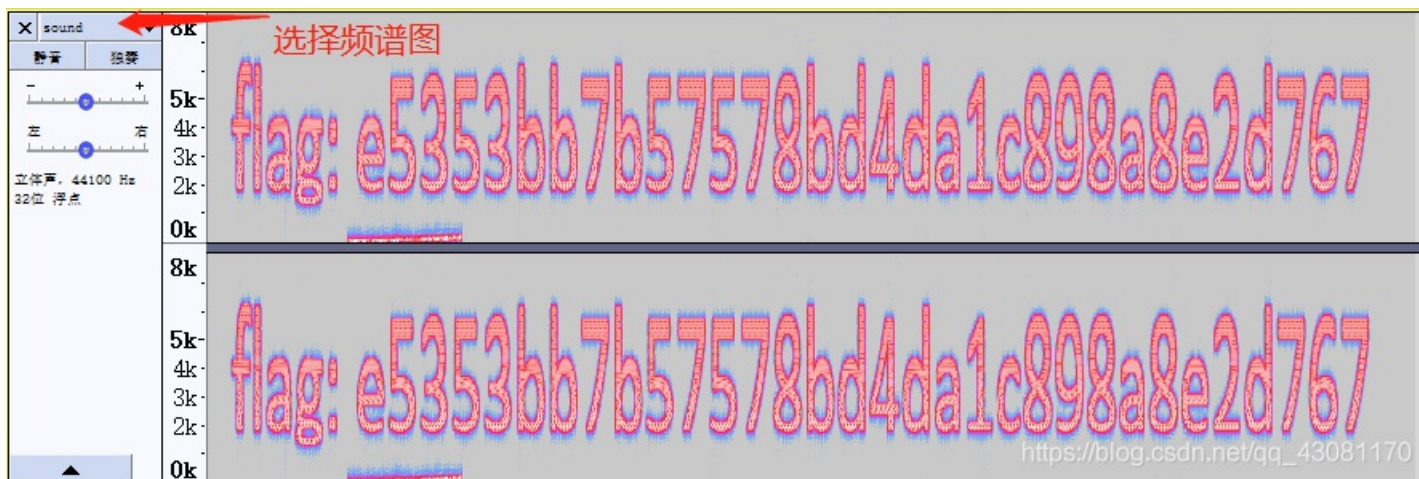
pure_color

下载附件，用stegsolve打开，Blue plane 0得到flag（注意格式flag{xxxxxx}）。



Hear-with-your-Eyes

下载附件解压缩，是一个音频，用Audacity打开，选择频谱图得到flag。



我们的秘密是绿色的

下载附件解压缩，是一张jpg图片，根据题目我们的秘密是绿色，用 OurSecret 工具分离处隐藏的文件，密码是jpg中的绿色的数字 0405111218192526



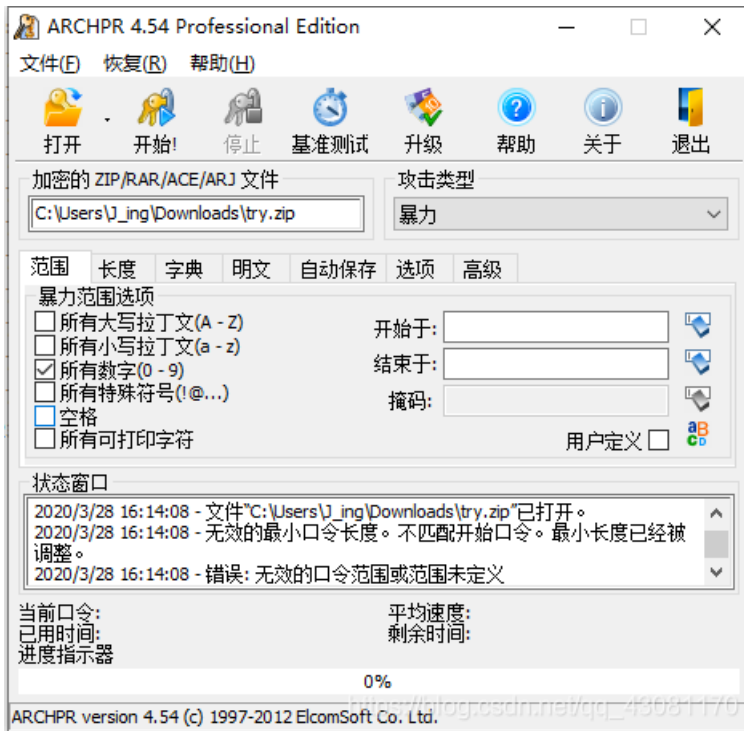


分离出来一个try.zip的压缩包，双击

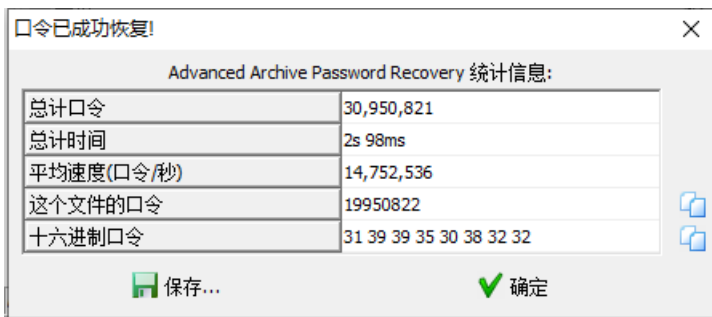
打开，



提示 你知道coffee的生日是多少么~~~，利用ARCHPR进行爆破，范围选择所有数字(0~9)，长度选择8位，



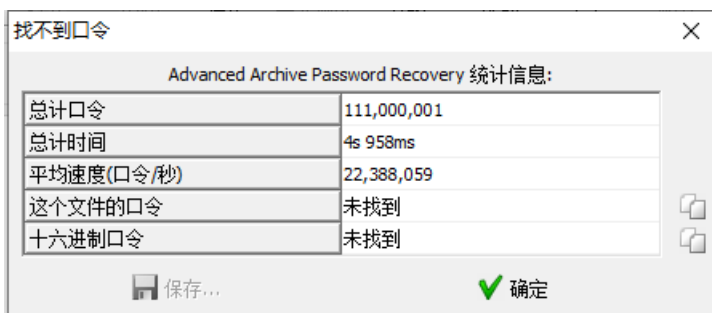
得到密码为 19950822 ,



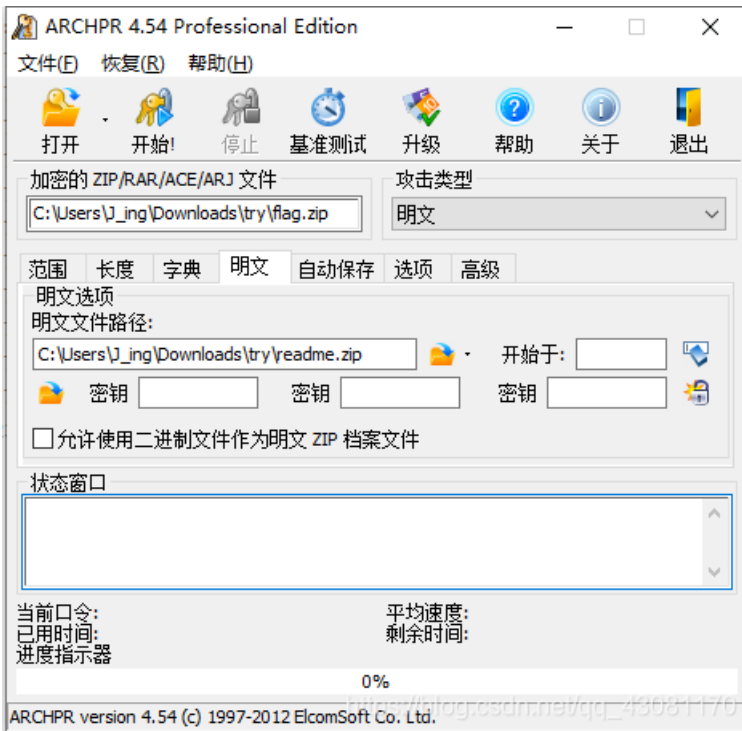
解压缩得到flag.zip和readme.txt, 双击打开flag.zip, 提示 小伙子, 拿出你的黑武器, 爆破吧~,



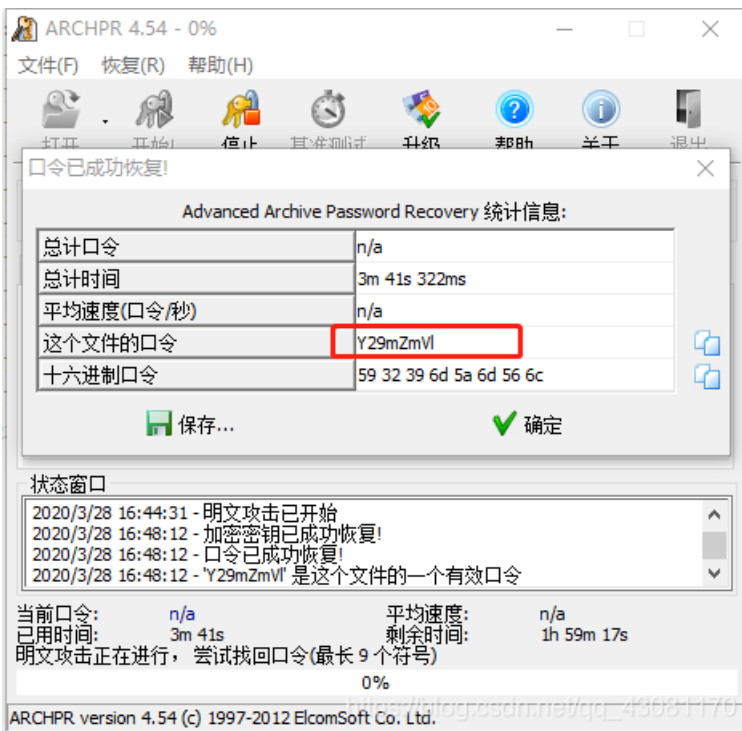
进行爆破,



将readme.txt压缩，查看到和flag.txt的循环冗余校验(CRC)值相同，应该为明文攻击，利用ARCHPR进行明文攻击，



得到解压密码，



解压缩又得到一个flag.zip和readme.txt，解压缩仍需要密码，

双击打开没有提示，放进winhex中，

```

00000000 50 4B 03 04 14 00 00 08 08 00 66 76 94 4A 7D AF PK.....fv"J}~
00000010 72 9F 1E 00 00 00 1E 00 00 00 08 00 00 00 66 6C rÿ.....f1
00000020 61 67 2E 74 78 74 2B 4C 49 29 28 2C CF 2B 48 2E ag.txt+LI) (,İ+H.
00000030 C8 49 CD 53 2D 28 02 B2 E3 AB E3 AB AA B4 52 1C ÈIIS-(.â«â«²`R.
00000040 D2 0B 6B 01 50 4B 01 02 3F 00 14 00 01 09 08 00 Ò.k.PK...?.....
00000050 66 76 94 4A 7D AF 72 9F 1E 00 00 00 00 1E 00 00 00 fv"J}~rÿ.....
00000060 08 00 24 00 00 00 00 00 00 00 00 00 20 00 00 00 00 $......
00000070 00 00 66 6C 61 67 2E 74 78 74 0A 00 20 00 00 00 ..flag.txt...
00000080 00 00 01 00 18 00 E6 FC D6 7E A2 B9 D2 01 2C E6 .....æüÖ~c²Ò.,æ
00000090 57 65 82 B9 D2 01 2C E6 57 65 82 B9 D2 01 50 4B We,²Ò.,æWe,²Ò.PK
000000A0 05 06 00 00 00 00 01 00 01 00 5A 00 00 00 44 00 .....Z...D.
000000B0 00 00 00 00

```

为zip伪加密，将 00 01 改为 00 00 保

存后解压缩，

```

flag.zip
Offset(h) 00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F
00000000 50 4B 03 04 14 00 00 08 08 00 66 76 94 4A 7D AF PK.....fv"J}~
00000010 72 9F 1E 00 00 00 1E 00 00 08 00 00 00 66 6C rY.....fl
00000020 61 67 2E 74 78 74 2B 4C 49 29 28 2C CF 2B 48 2E ag.txt+LI) (, I+H.
00000030 C8 49 CD 53 2D 28 02 B2 E3 AB E3 AB AA B4 52 1C ÈÍÏS-(.ª«ã«ª'R.
00000040 D2 0B 6B 01 50 4B 01 02 3F 00 14 00 00 09 08 00 Ò.k.PK..?.....
00000050 66 76 94 4A 7D AF 72 9F 1E 00 00 00 1E 00 00 00 fv"J}~rY.....
00000060 08 00 24 00 00 00 00 00 00 00 20 00 00 00 00 00 ..$......
00000070 00 00 66 6C 61 67 2E 74 78 74 0A 00 20 00 00 00 ..flag.txt...
00000080 00 00 01 00 18 00 E6 FC D6 7E A2 B9 D2 01 2C E6 .....æüÖ~c¹Ò.,æ
00000090 57 65 82 B9 D2 01 2C E6 57 65 82 B9 D2 01 50 4B We,¹Ò.,æWe,¹Ò.PK
000000A0 05 06 00 00 00 00 01 00 01 00 5A 00 00 00 44 00 .....Z...D.
000000B0 00 00 00 00

```

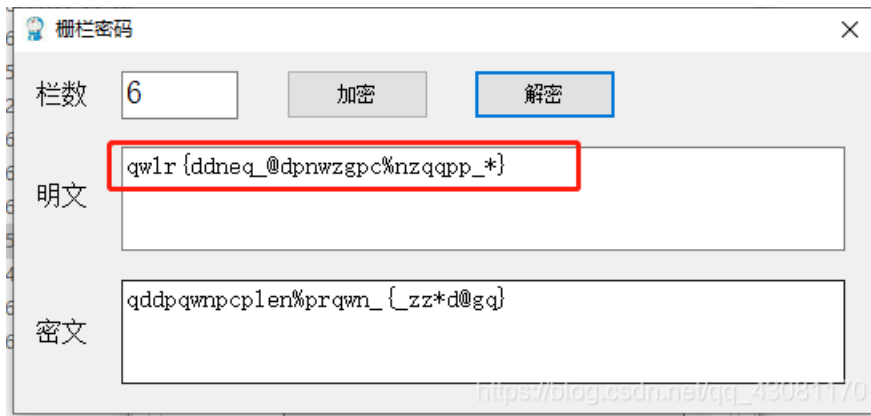
解压得到flag.txt.

```

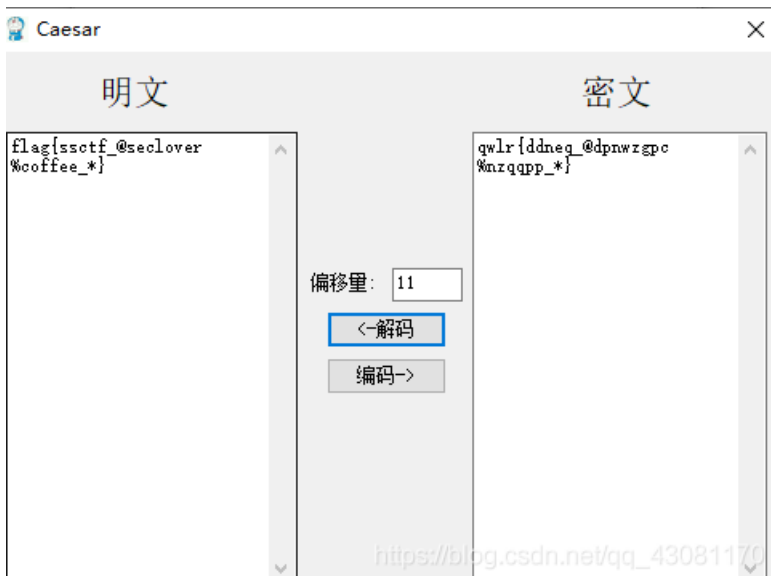
flag.txt - 记事本
文件(F) 编辑(E) 格式(O) 查看(V) 帮助(H)
qddpqwnpcplen%prqwn_{zz*d@gq}

```

利用栅栏解密，



再进行凯撒解密得到flag。

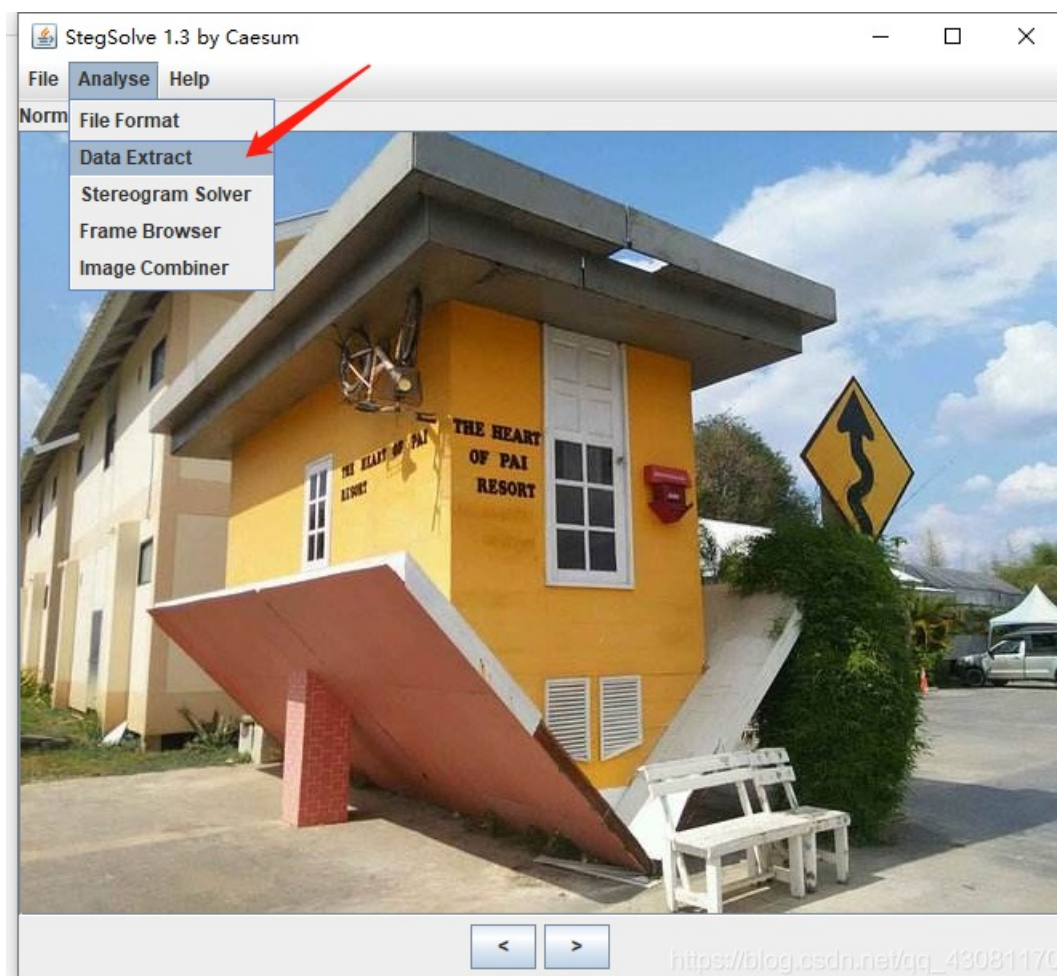


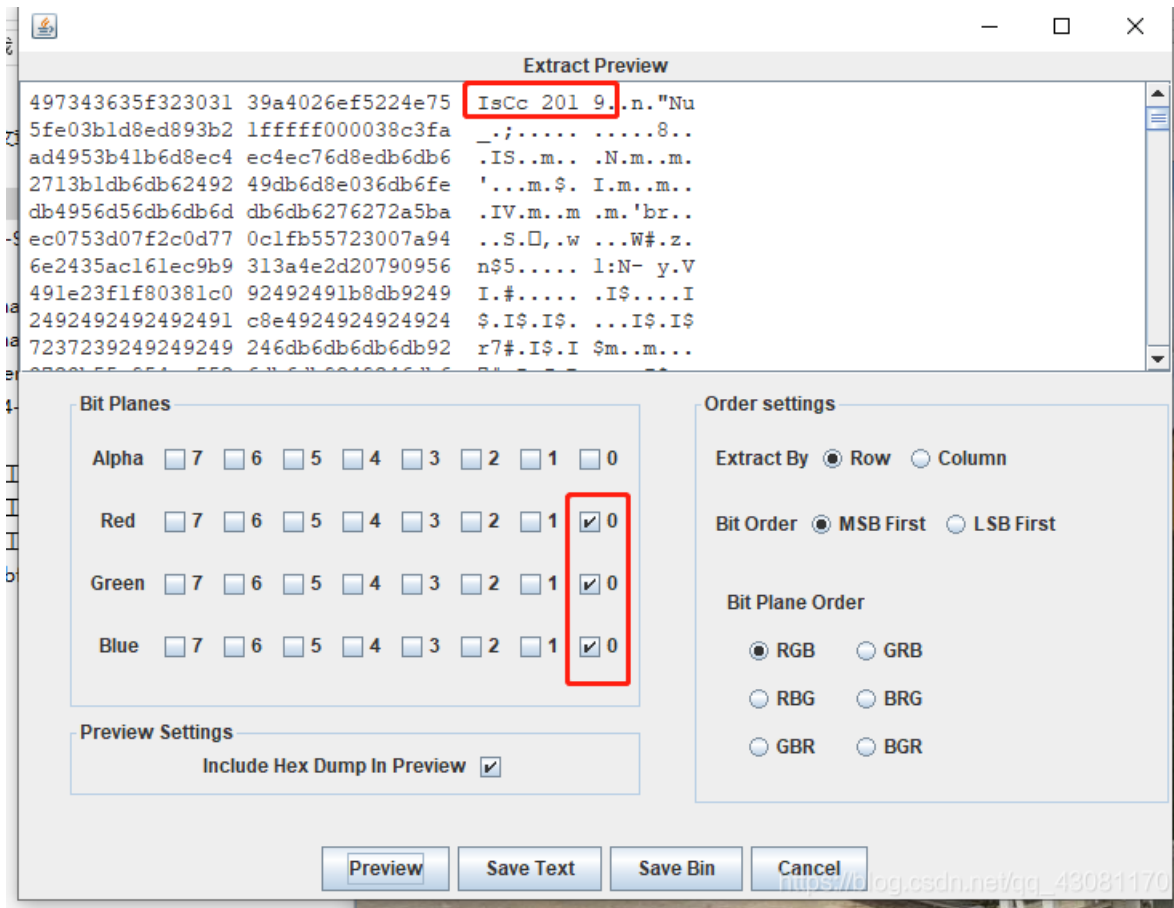
倒立屋

下载附件解压缩出来一张png图片，



放进StegSolve，



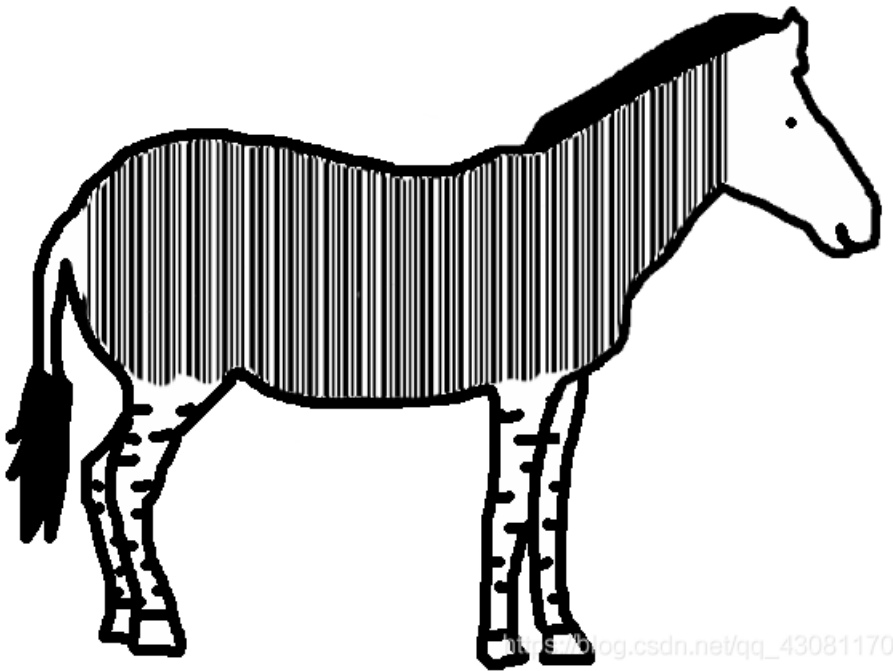


将IsCc_2019倒过来就

是flag: `flag{9102_cCsI}`。

Banmabanma

下载附件，是一个斑马的图片，



中间看着像条形码，利用在线条码扫描工具 <https://online-barcode-reader.inliteresearch.com/> 扫描得到flag。

Free Online Barcode Reader

To get such results using [ClearImage SDK](#) use [TBR Code 103](#).

If your **business** application needs barcode recognition capabilities,
email your technical questions to support@inliteresearch.com
email your sales inquiries to sales@inliteresearch.com

File: 斑马斑马.png New File

Pages: 1 Barcodes: 1

Barcode: 1 of 1 Type: Code39

Length: 16 Rotation: none

Module: 1.6pix Rectangle: {X=71,Y=93,Width=410,Height=119}

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FLAG IS TENSHINE



https://blog.csdn.net/qq_43081170

[something_in_image](#)

下载附件，利用file命令分析文件为 Linux EXT filesystem，直接

`strings badimages |grep Flag` 得到flag。

```
root@kali:~/桌面# strings badimages|grep Flag
.Flag.txt.swpe
Flag.txtt.swx
.Flag.txt.swpe
.Flag.txt.swx
.Flag.txt.swpe
Flag.txtt.swx
.Flag.txt.swpe
Flag.txtt.swx
.Flag.txt.swpe
.Flag.txt.swx
.Flag.txt.swpe
Flag.txtt.swx
Flag.txt
Flag.txt
Flag.txt
Flag.txt
/mnt/test/Flag.txt
Flag{}
Flag{yc4p10fvjs2k1t7T}
/mnt/test/Flag.txt
Flag{}
Flag{yc4p10fvjs2k1t7T}
```

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a_good_idea

下载附件解压缩得到一张图片，利用binwalk分析文件，发现隐藏有压缩包，foremost解压缩得到一个txt文件和两个看似一样的图片，查看txt文件，内容为 `try to find the secret of pixels`，尝试找到像素的秘密，两张看似一样的图片利用Beyond Compare进行对比得到一个二维码，扫码得到flag。

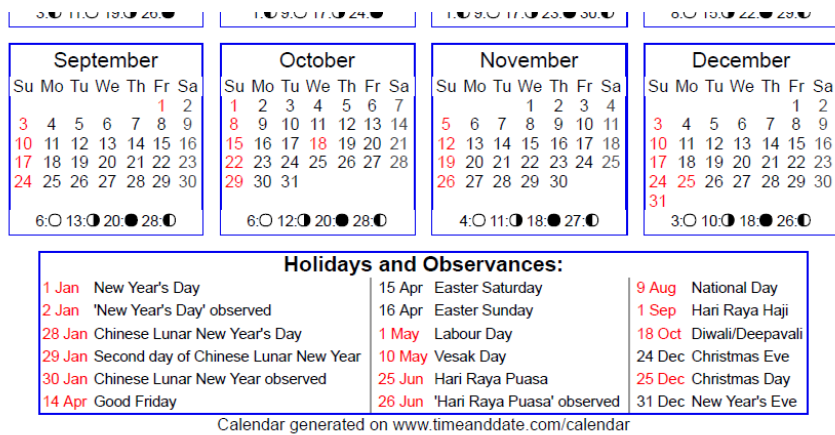


2017_Dating_in_Singapore

下载附件解压缩是一张pdf图片，打开是一个日历，

Calendar for Year 2017 (Singapore)

January	February	March	April
Su Mo Tu We Th Fr Sa 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 6:00 12:00 20:00 28:00	Su Mo Tu We Th Fr Sa 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 4:00 11:00 19:00 26:00	Su Mo Tu We Th Fr Sa 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 5:00 12:00 20:00 28:00	Su Mo Tu We Th Fr Sa 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 4:00 11:00 19:00 26:00
May	June	July	August
Su Mo Tu We Th Fr Sa 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 2:00 11:00 19:00 26:00	Su Mo Tu We Th Fr Sa 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 1:00 8:00 17:00 24:00	Su Mo Tu We Th Fr Sa 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 1:00 8:00 17:00 24:00	Su Mo Tu We Th Fr Sa 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 8:00 15:00 23:00 26:00



题目描述中还有一串数字，数字间有-，将数字按照-分割。

```

1 01081522291516170310172431-
2 050607132027262728-
3 0102030209162330-
4 02091623020310090910172423-
5 02010814222930-
6 0605041118252627-
7 0203040310172431-
8 0102030108152229151617-
9 04050604111825181920-
10 0108152229303124171003-
11 261912052028211407-
12 04051213192625

```

分割之后正好有12行对应12个月份，没两位一组，

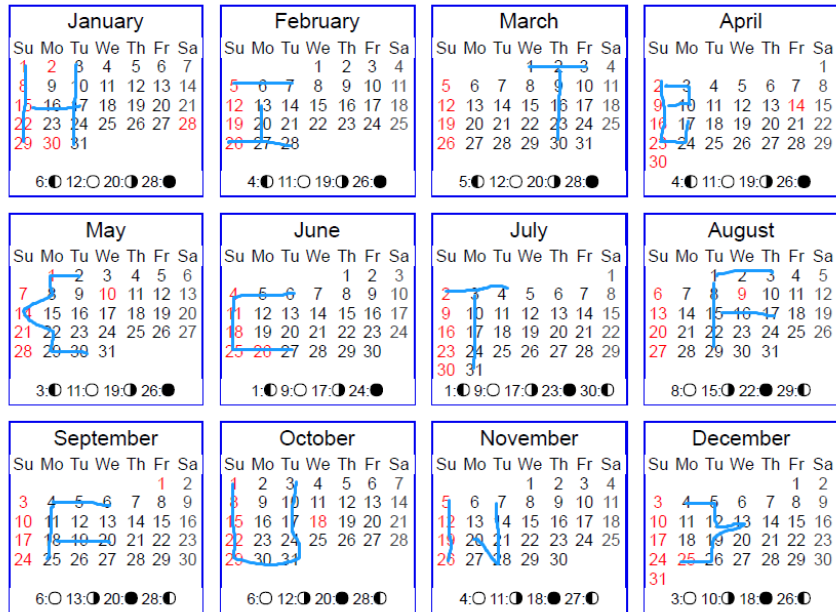
```

1 01 08 15 22 29 15 16 17 03 10 17 24 31-
2 05 06 07 13 20 27 26 27 28-
3 01 02 03 02 09 16 23 30-
4 02 09 16 23 02 03 10 09 09 10 17 24 23-
5 02 01 08 14 22 29 30-
6 06 05 04 11 18 25 26 27-
7 02 03 04 03 10 17 24 31-
8 01 02 03 01 08 15 22 29 15 16 17-
9 04 05 06 04 11 18 25 18 19 20-
10 01 08 15 22 29 30 31 24 17 10 03-
11 26 19 12 05 20 28 21 14 07-
12 04 05 12 13 19 26 25

```

按照顺序连线得到flag。

Calendar for Year 2017 (Singapore)



Holidays and Observances:

1 Jan	New Year's Day	15 Apr	Easter Saturday	9 Aug	National Day
2 Jan	'New Year's Day' observed	16 Apr	Easter Sunday	1 Sep	Hari Raya Haji
28 Jan	Chinese Lunar New Year's Day	1 May	Labour Day	18 Oct	Diwali/Deepavali
29 Jan	Second day of Chinese Lunar New Year	10 May	Vesak Day	24 Dec	Christmas Eve
30 Jan	Chinese Lunar New Year observed	25 Jun	Hari Raya Puasa	25 Dec	Christmas Day
14 Apr	Good Friday	26 Jun	'Hari Raya Puasa' observed	31 Dec	New Year's Eve

Calendar generated on www.timeanddate.com/calendar

https://blog.csdn.net/qq_43091170

下载附件，是一个pcap格式的文件，用binwalk分心文件，文件中隐藏有pdf文件，利用foremost进行文件分离，得到pdf文件。

```
root@kali:~/桌面 # binwalk f9809647382a42e5bfb64d7d447b4099.pcap
```

DECIMAL	HEXADECIMAL	DESCRIPTION
0	0x0	Libpcap capture file, little-endian, version 2.4, Ethernet, snaplen: 262144
339380	0x52DB4	PDF document, version: "1.5"
339454	0x52DFE	Zlib compressed data, default compression
340171	0x530CB	Zlib compressed data, default compression
6380104	0x615A48	Zlib compressed data, default compression
6385002	0x616D6A	Zlib compressed data, default compression

```
root@kali:~/桌面 # foremost f9809647382a42e5bfb64d7d447b4099.pcap
ERROR: /root/桌面/output is not empty
Please specify another directory or run with -T.
root@kali:~/桌面 # foremost f9809647382a42e5bfb64d7d447b4099.pcap
Processing: f9809647382a42e5bfb64d7d447b4099.pcap
|*|
root@kali:~/桌面 #
```

https://blog.csdn.net/qq_43081170

打开pdf文件得到flag。

HITB{b3d0e380e9c39352c667307d010775ca}

can_has_stdio?

下载附件，binwalk分析文件，是Linux文件，

```
root@kali:~/桌面# binwalk 8deb5f0c2cd84143807b6175f58d6f3f.core
```

DECIMAL	HEXADECIMAL	DESCRIPTION
0	0x0	ELF, 64-bit LSB core file AMD x86-64, version 1 (SYSV)
3372	0xD2C	Unix path: /home/oddcoder/projects/ctf/forensics/FORE1/code
3516	0xDBC	ELF, 64-bit LSB executable, AMD x86-64, version 1 (SYSV)
342804	0x53B14	ELF, 64-bit LSB shared object, AMD x86-64, version 1 (GNU/Linux)
351676	0x55DBC	ELF, 64-bit LSB shared object, AMD x86-64, version 1 (SYSV)

那个strings查

看，有一串很长的字符串，从第三位开始，每5位进行提取得到flag。

```
cvqAeqacLtqazEigwiXobxrCrtuiTzahfFreqc{bnjrKwgk83kgd43j85ePgb_e_rwqr7fvbmHjkl03tews_hmkogooyf0vbnk0ii87Drfgh_n_kiwutfb0ghk9ro987k5t-fb_hjiouo087ptfcv}
```

附上提取脚本：

```
str = 'cvqAeqacLtqazEigwiXobxrCrtuiTzahfFreqc{bnjrKwgk83kgd43j85ePgb_e_rwqr7fvbmHjkl03tews_hmkogooyf0vbnk0ii87Drfgh_n_kiwutfb0ghk9ro987k5t-fb_hjiouo087ptfcv}'
flag = ''
for i in range(3,len(str),5):
    flag += str[i]
print flag
```

信号不好先挂了

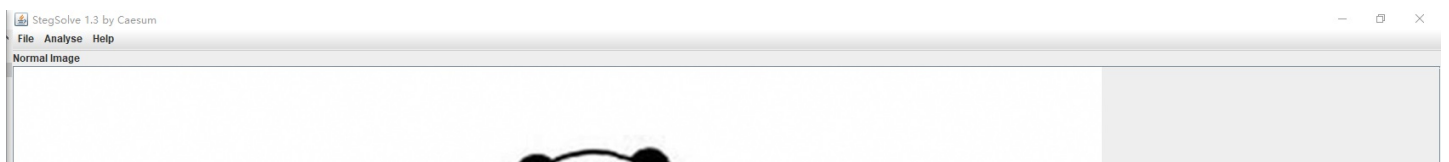
下载附件解压缩得到一张图片apple.png，



喂！喂？我信号不好，我先挂了

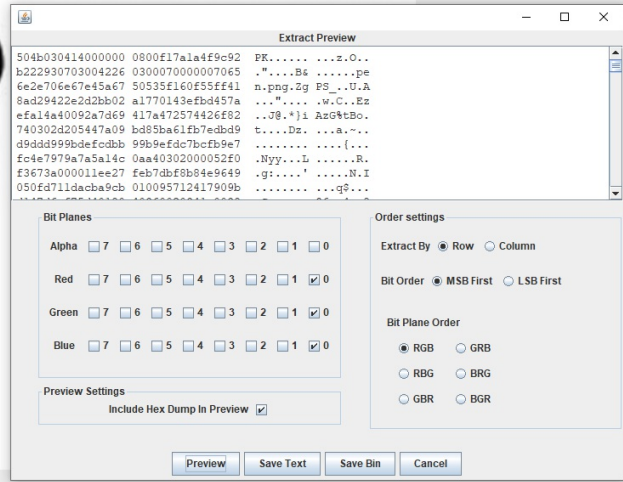
https://blog.csdn.net/qq_43081170

用Stegsolve打开，





喂！喂？我信号不好，我先挂了



得到一个压缩包，解压缩，得到一个看似和apple.png的图片，



喂！喂？我信号不好，我先挂了

https://blog.csdn.net/qq_43081170

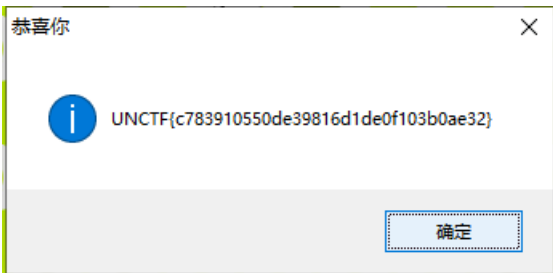
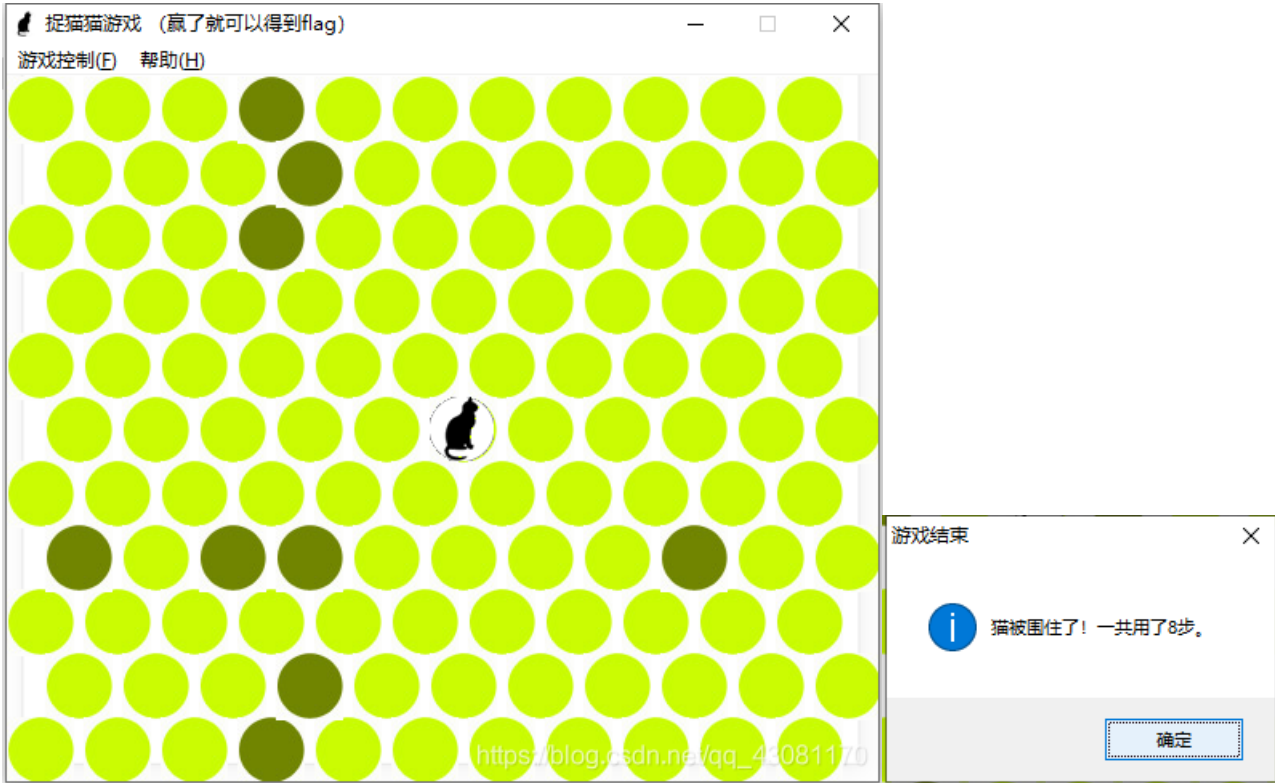
然后利用盲水印脚本得到flag。

```
python bwn.py decode apple.png pen.png apple_pen.png
```



快乐游戏题

下载附件解压缩，是一个exe的文件，运行，将猫围住即可得到flag。



glance-50

下载附件是一个动态图片，

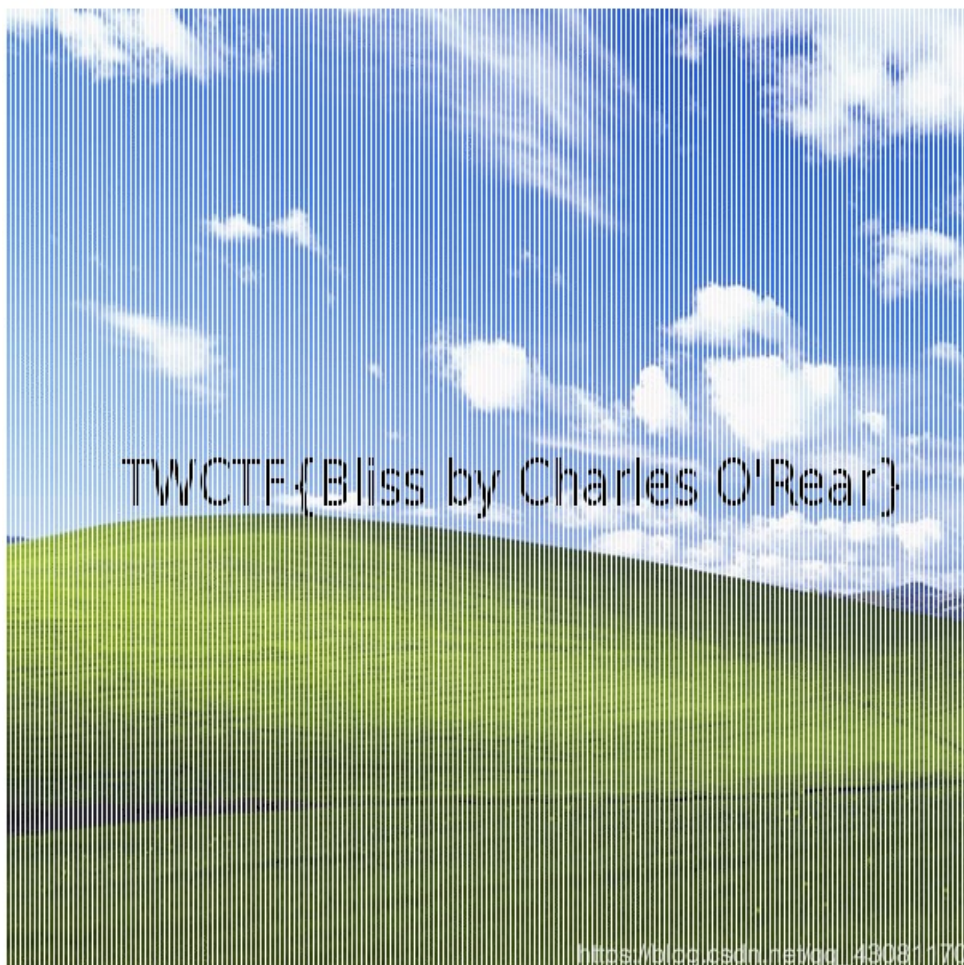


利用在线动图分帧合并工具，得到flag。

获取图片 (二选一)

本地上传 网络图片

浏览... 9266eadf...c50.gif



下载附件是一张png图片，



图片有点大怀疑有隐藏文件，用binwalk分析文件，发现一个隐藏有一个压缩包，foremost文件分离，

```
root@kali:~/桌面# binwalk e02c9de40be145dba6baa80ef1d270ba.png
```

DECIMAL	HEXADECIMAL	DESCRIPTION
---------	-------------	-------------

```

0          0x0          PNG image, 926 x 1100, 8-bit/color RGB, non-interlaced
1822      0x71E       Zlib compressed data, default compression
989714    0xF1A12      RAR archive data, version 4.x, first volume type: MAIN_HEAD

```

```

root@kali:~/桌面# foremost e02c9de40be145dba6baa80ef1d270ba.png
ERROR: /root/桌面/output is not empty
Please specify another directory or run with -T.
root@kali:~/桌面# foremost e02c9de40be145dba6baa80ef1d270ba.png
Processing: e02c9de40be145dba6baa80ef1d270ba.png
|*|
root@kali:~/桌面# █

```

https://blog.csdn.net/qq_43081170

解压缩需要密码，

修改图片像素高度，得到解压缩密码，

Offset (h)	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F	
00000000	89	50	4E	47	0D	0A	1A	0A	00	00	00	0D	49	48	44	52	%PNG.....IHDR
00000010	00	00	03	9E	00	00	04	4C	08	02	00	00	00	38	16	5A	...ž...L.....8.Z
00000020	34	00	00	00	09	70	48	59	03	00	00	0B	13	00	00	0B	4....p#Ys.....
00000030	13	01	00	9A	9C	18	00	00	00	D4	69	54	58	74	58	4D	...šœ....ÔiTXtXM
00000040	4C	3A	63	6F	6D	2E	61	64	6F	62	65	2E	78	6D	70	00	I:com.adobe.xmp.
00000050	00	00	00	00	3C	3F	78	70	61	63	6B	63	42	00	62	65<?xpacket be
00000060	67	69	6E	3D	22	EF	BB	BF	22	20	69	64	3D	22	57	35	gin="i;" id="W5
00000070	4D	30	4D	70	43	65	68	69	48	7A	72	65	53	7A	4E	54	MOMpCehiHzreSzNT
00000080	63	7A	6B	63	39	64	22	3F	3E	20	3C	78	3A	78	6D	70	czkc9d"?> <x:xmp
00000090	6D	65	74	61	20	78	6D	6C	6E	73	3A	78	3D	22	61	64	meta xmlns:x="ad
000000A0	6F	62	65	3A	6E	73	3A	6D	65	74	61	2F	22	20	78	3A	obe:ns:meta/" x:
000000B0	78	6D	70	74	6B	3D	22	41	64	6F	62	65	20	58	4D	50	xmptk="Adobe XMP
000000C0	20	43	6F	72	65	20	35	2E	36	2D	63	31	34	32	20	37	Core 5.6-cl42 7
000000D0	39	2E	31	36	30	39	32	34	2C	20	32	30	31	37	2F	30	9.160924, 2017/0
000000E0	37	2F	31	33	2D	30	31	3A	30	36	3A	33	39	20	20	20	7/13-01:06:39
000000F0	20	20	20	20	20	22	3E	20	3C	72	64	66	3A	52	44	46	"> <rdf:RDF
00000100	20	78	6D	6C	6E	73	3A	72	64	66	3D	22	68	74	74	70	xmlns:rdf="http
00000110	3A	2F	2F	77	77	77	2E	77	33	2E	6F	72	67	2F	31	39	://www.w3.org/19
00000120	39	39	2F	30	32	2F	32	32	2D	72	64	66	2D	73	79	6E	99/02/22-rdf-syn
00000130	74	61	78	2D	6E	73	23	22	3E	20	3C	72	64	66	3A	44	tax-ns#"> <rdf:D
00000140	65	73	63	72	69	70	74	69	6F	6E	20	72	64	66	3A	61	escription rdf:a
00000150	62	6F	75	74	3D	22	22	20	78	6D	6C	6E	73	3A	78	6D	bout="" xmlns:xm
00000160	70	3D	22	68	74	74	70	3A	2F	2F	6E	73	2E	61	64	6F	p="http://ns.ado
00000170	62	65	2E	63	6F	6D	2F	78	61	70	2F	31	2E	30	2F	22	be.com/xap/1.0/"
00000180	20	78	6D	6C	6E	73	3A	78	6D	70	4D	4D	3D	22	68	74	xmlns:xmpMM="ht





StRe1izia

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解压缩得到 `Ditf.pcapng`，用wireshark打开，将HTTP对象导出，有一个html的文件，

```
<html>
  <head>
    <meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
  </head>
  <body>
    
    ZmxhZ3tPel80bmRfSGlyMF9sb3YzX0ZvcjN2ZXJ9
  </body>
</html>
```

将

`ZmxhZ3tPel80bmRfSGlyMF9sb3YzX0ZvcjN2ZXJ9` base64解码得到flag。

4-1

下载附件解压缩，是一张图片，





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用binwalk分析文件，发现隐藏有zip压缩包，foremost分

离，

```
root@kali:~/桌面# binwalk 画风不一样的喵.png
DECIMAL      HEXADECIMAL  DESCRIPTION
-----
0            0x0          PNG image, 487 x 742, 8-bit/color RGBA, non-interlaced
41           0x29        Zlib compressed data, default compression
415520       0x65720     Zip archive data, at least v2.0 to extract, compressed size: 74, uncompressed size: 78, name: tips.txt
415632       0x65790     Zip archive data, at least v1.0 to extract, compressed size: 659434, uncompressed size: 659434, name: day2's secret.zip
1075091      0x106793    End of Zip archive, footer length: 22
1075302      0x106866    End of Zip archive, footer length: 22

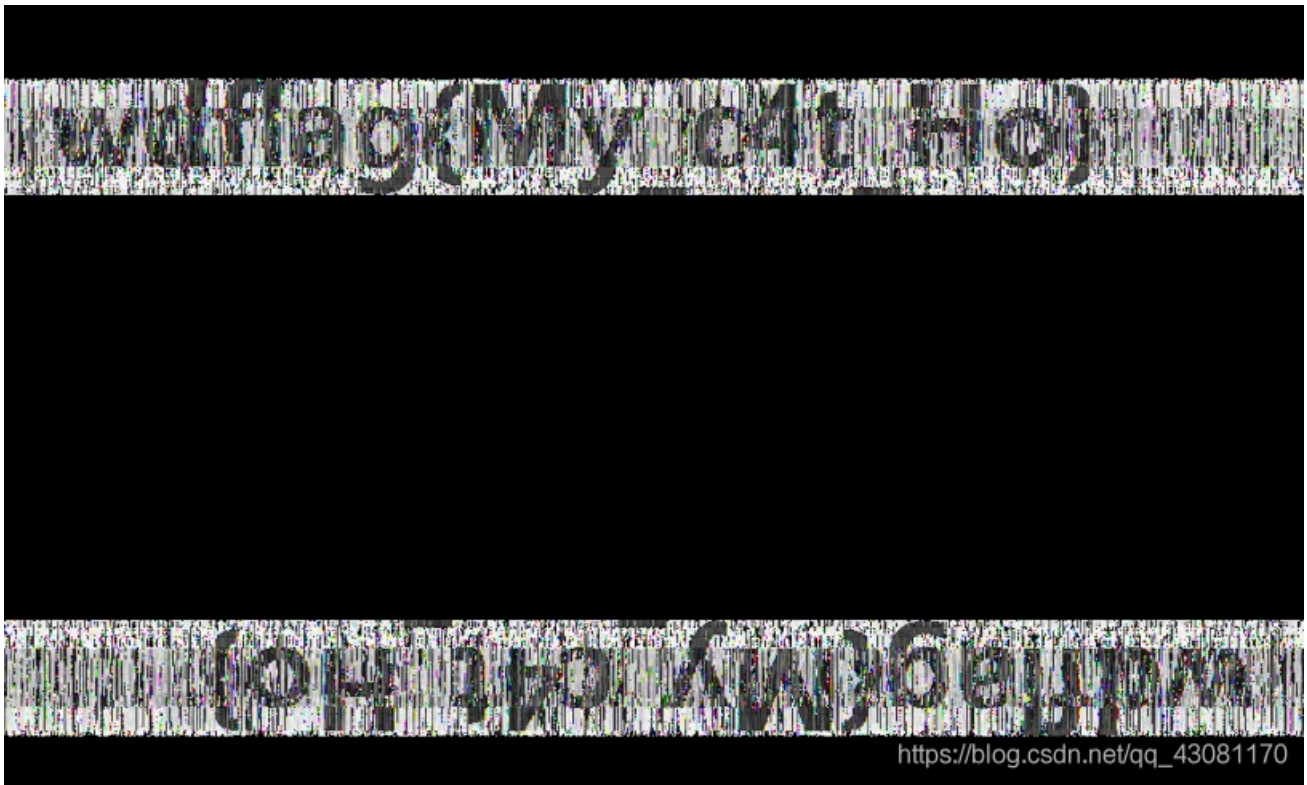
root@kali:~/桌面# foremost 画风不一样的喵.png
Processing: 画风不一样的喵.png
|foundat=tips.txt|
PK
|n(ϕFL8ϕhϕXORϕHϕ"#'ϕϕ.vp [ϕϕϕϕrϕ8ϕ
foundat=day2's secret.zipPK
*|
root@kali:~/桌面#
```

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解压缩后又得到一个压缩包和txt文件，再一次解压缩得到两张看似相同的图片，用脚本跑盲水印得到图片flag。



```
PS D:\CTF\图片隐写\BlindWaterMark> python .\bwm.py decode day1.png day2.png day1_day2.png
image<day1.png> + image(encoded)<day2.png> -> watermark<day1_day2.png>
PS D:\CTF\图片隐写\BlindWaterMark>
```

low

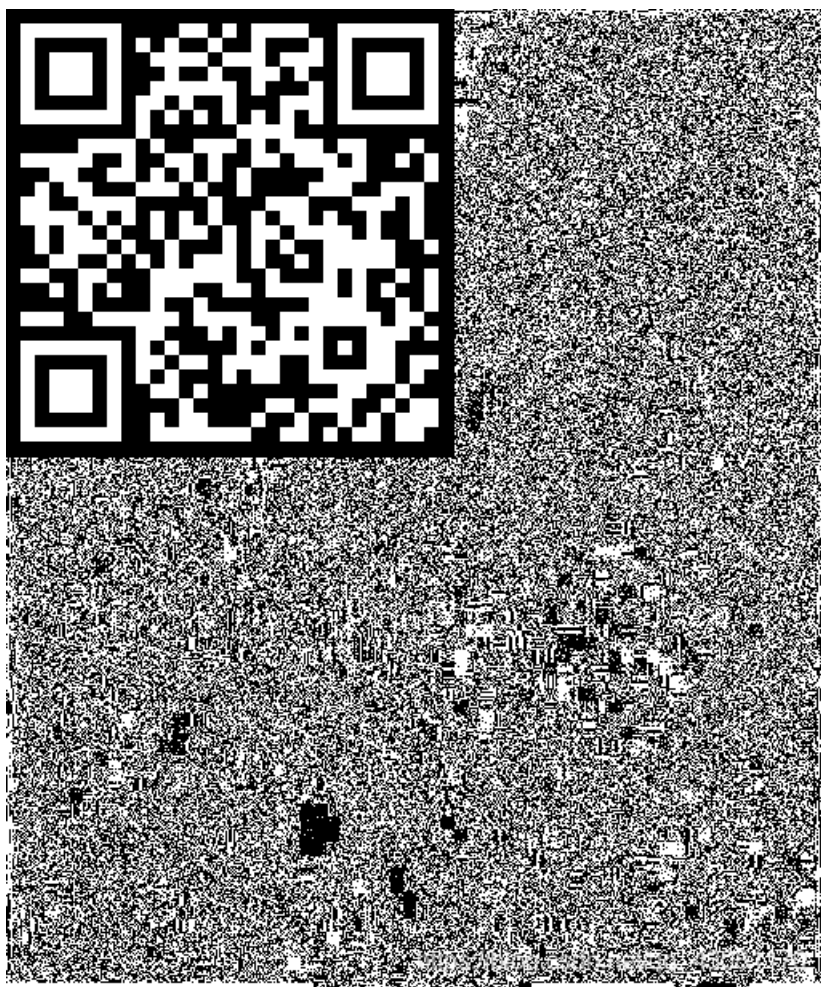
下载附件，解压缩得到一个bmp图片，



LSB隐写，脚本如下：

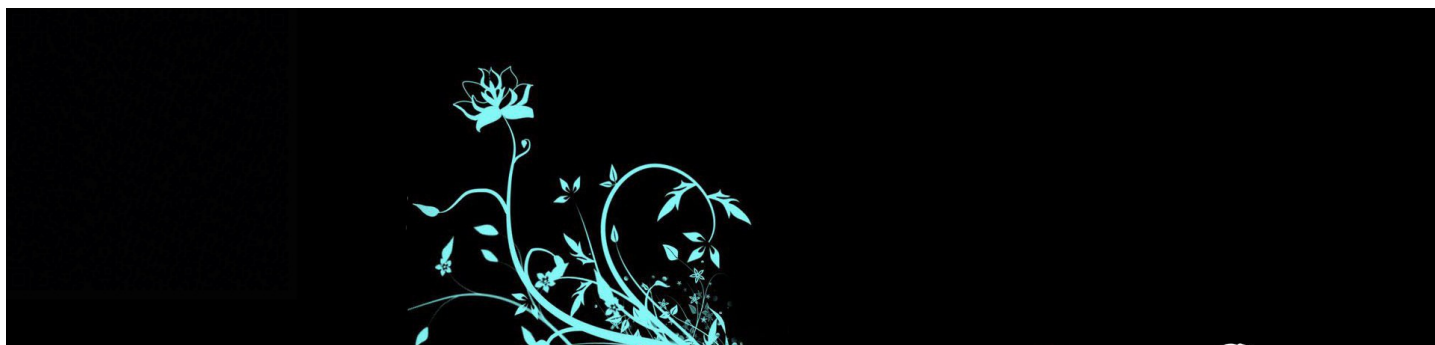
```
import PIL.Image as Image #需安装PIL模块, 如果安装失败可以安装pillow模块
img = Image.open('low.bmp')
img_tmp = img.copy()
pix = img_tmp.load()
width,height = img_tmp.size
for w in range(width):
    for h in range(height):
        if pix[w,h]&1 == 0:
            pix[w,h] = 0
        else:
            pix[w,h] = 255
img_tmp.show()
```

生成一个二维码图片，扫描二维码得到flag。



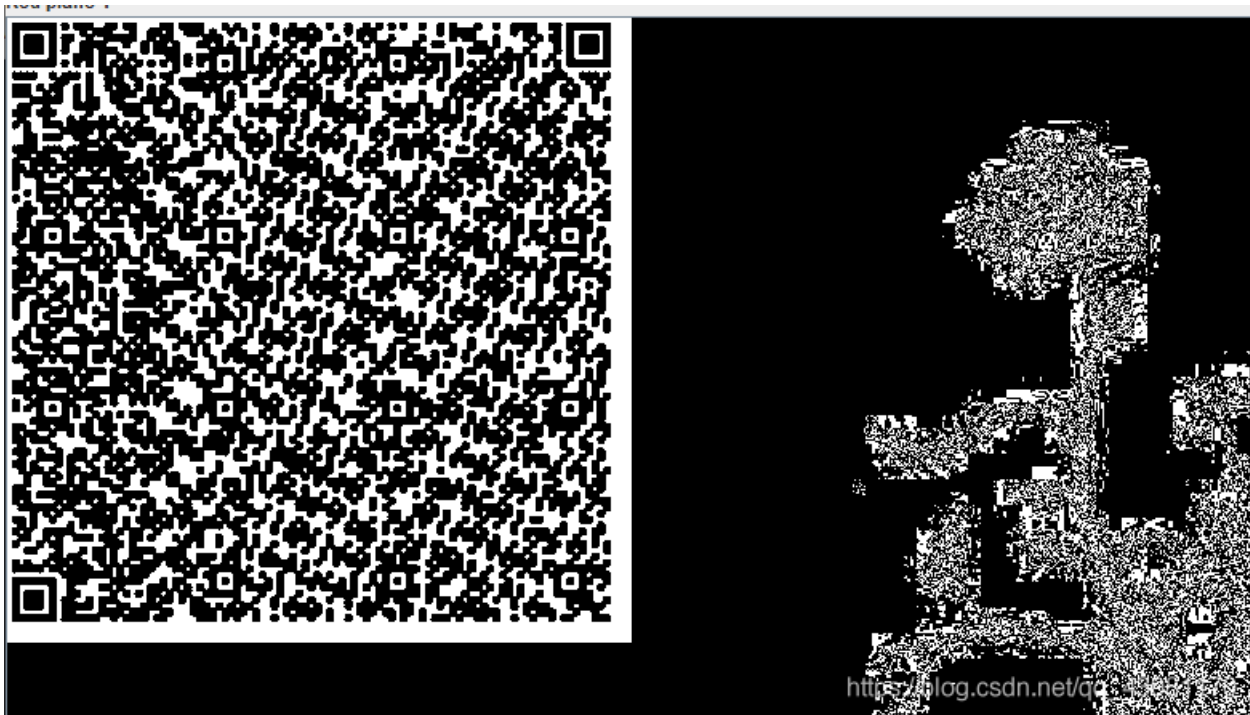
适合作为桌面

下载附件解压缩得到一张图片，





用StegSolve打开得到一张二维码，



扫描二维码得到一串十六进制字符串，放到winhex中，保存为 .pyc 格式，

```

Offset(h) 00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F
00000000 03 F3 0D 0A 79 CB 05 58 63 00 00 00 00 00 00 00 00 .ó..yË.Xc.....
00000010 00 01 00 00 00 40 00 00 00 73 0D 00 00 00 64 00 ....@...s....d.
00000020 00 84 00 00 5A 00 00 64 01 00 53 28 02 00 00 00 ....Z..d..S(....
00000030 63 00 00 00 00 03 00 00 00 16 00 00 00 43 00 00 c.....C..
00000040 00 73 78 00 00 00 64 01 00 64 02 00 64 03 00 64 .sx...d..d..d..d
00000050 04 00 64 05 00 64 06 00 64 07 00 64 03 00 64 08 ..d..d..d..d..d.
00000060 00 64 09 00 64 0A 00 64 06 00 64 0B 00 64 0A 00 .d..d..d..d..d..
00000070 64 07 00 64 08 00 64 0C 00 64 0C 00 64 0D 00 64 d..d..d..d..d..d
00000080 0E 00 64 09 00 64 0F 00 67 16 00 7D 00 00 64 10 ..d..d..g..}..d.
00000090 00 7D 01 00 78 1E 00 7C 00 00 44 5D 16 00 7D 02 .}..x..[..D]..}.
000000A0 00 7C 01 00 74 00 00 7C 02 00 83 01 00 37 7D 01 .|.t..|.f..7}.
000000B0 00 71 55 00 57 7C 01 00 47 48 64 00 00 53 28 11 .qU.W|..GHd..S(.
000000C0 00 00 00 4E 69 66 00 00 00 69 6C 00 00 00 69 61 ...Nif...il...ia
000000D0 00 00 00 69 67 00 00 00 69 7B 00 00 00 69 33 00 ...ig...i{...i3.
000000E0 00 00 69 38 00 00 00 69 35 00 00 00 69 37 00 00 ..i8...i5...i7..
000000F0 00 69 30 00 00 00 69 32 00 00 00 69 34 00 00 00 .i0...i2...i4...
00000100 69 31 00 00 00 69 65 00 00 00 69 7D 00 00 00 74 il...ie...i}...t
00000110 00 00 00 00 28 01 00 00 00 74 03 00 00 00 63 68 ....(....t....ch
00000120 72 28 03 00 00 00 74 03 00 00 00 73 74 72 74 04 r(....t....strt.
00000130 00 00 00 66 6C 61 67 74 01 00 00 00 69 28 00 00 ...flagt....i(..
00000140 00 00 28 00 00 00 00 73 04 00 00 00 31 2E 70 79 ..(....s....l.py
00000150 52 03 00 00 00 01 00 00 00 73 0A 00 00 00 00 01 R.....s.....
00000160 48 01 06 01 0D 01 14 01 4E 28 01 00 00 00 52 03 H.....N(....R.
00000170 00 00 00 28 00 00 00 00 28 00 00 00 28 00 00 ...f....f....f..

```

```

.....
00000180  00 00 73 04 00 00 00 31 2E 70 79 74 08 00 00 00  ..s....l.pyt....
00000190  3C 6D 6F 64 75 6C 65 3E 01 00 00 00 73 00 00 00  <module>....s...
000001A0  00|
.....

```

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用

EasyPythonDecompiler转化为py格式文件。整理运行得到flag。

```

# Embedded file name: 1.py
str = [102,108,97,103,123,51,56,97,53,55,48,51,50,48,56,53,52,52,49,101,55,125]
flag = ''
for i in str:
    flag += chr(i)
print flag

```

easycap

下载附件用wireshark打开，全部为TCP协议的数据包，追踪TCP流，得到flag。

	Source	Destination	Protocol	Length	Info
000	172.31.98.199	192.155.81.86	TCP	74	46046 → 7890 [SYN] Seq=0 Win=29200 Len=0 MSS=1460 SACK_PERM=1 TS...
197	192.155.81.86	172.31.98.199	TCP	74	7890 → 46046 [SYN, ACK] Seq=0 Ack=1 Win=28960 Len=0 MSS=1460 SACK...
275	172.31.98.199	192.155.81.86	TCP	66	46046 → 7890 [ACK] Seq=1 Ack=1 Win=29312 Len=0 TSval=66420272 TSe...
2541	Wireshark · 追踪 TCP 流 (tcp.stream eq 0) · d5ba8f87969145059170a222f01e7883.pcap				642594
9416					474 TS
3048	FLAG: 385b87afc8671dee07550290d16a8071				642619
3912					775 TS