

攻防世界misc高手区部分writeup

原创

于 2019-10-10 19:35:32 发布 1755 收藏 9

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2 篇文章 0 订阅

订阅专栏

title: 攻防世界misc高手区部分writeup

tags: ctf

categories: ctf

1.easycap

下载下来是一个流量包, 用wireshark打开, 搜索关键字flag, 第二行追踪tcp流,

No.	Time	Source	Destination	Protocol	Length	Info
1	0.000000	172.31.98.199	192.155.81.86	TCP	74	46046->7890 [SYN, Seq=0 win=29
2	0.029197	192.155.81.86	172.31.98.199	TCP	74	7890->46046 [SYN, ACK] Seq=0 A
3	0.029275					5046->7890 [ACK] Seq=1 Ack=1 A
4	22.722541					5046->7890 [PSH, ACK] Seq=1 A
5	22.749416					890->46046 [ACK] Seq=1 Ack=2
6	23.723048					5046->7890 [PSH, ACK] Seq=2 A
7	23.753912					890->46046 [ACK] Seq=1 Ack=3
8	24.723642					5046->7890 [PSH, ACK] Seq=3 A
9	24.753844					890->46046 [ACK] Seq=1 Ack=4
10	25.724349					5046->7890 [PSH, ACK] Seq=4 A
11	25.753234					890->46046 [ACK] Seq=1 Ack=5
12	26.724839					5046->7890 [PSH, ACK] Seq=5 A
13	26.755643					890->46046 [ACK] Seq=1 Ack=6
14	27.725043					5046->7890 [PSH, ACK] Seq=6 A
15	27.755928					890->46046 [ACK] Seq=1 Ack=7
16	28.725317					5046->7890 [PSH, ACK] Seq=7 A
17	28.756580					890->46046 [ACK] Seq=1 Ack=8

Stream Content

```
FLAG:385b87afc8671dee07550290d16a8071
```

2.Avatar

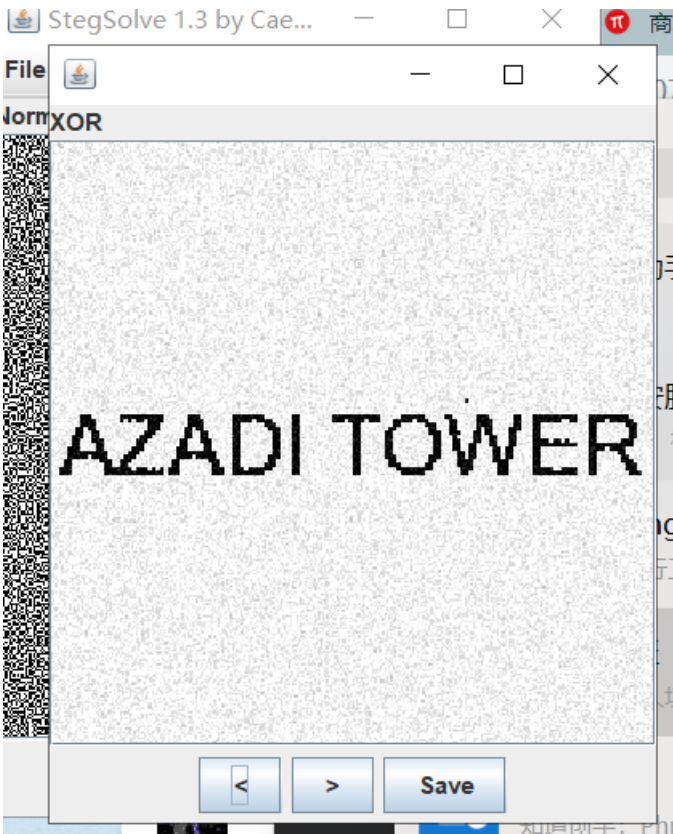
下载下来是一张图片, 这里考察outguess算法, 在kali下载outguess, apt-get install outguess,

"We should blow up the bridge at midnight"即为flag.

```
root@kali:~/Downloads/misc_higher# outguess -r b985d98d87b24ff1b17fc02ffc446b2c.jpg out
Reading b985d98d87b24ff1b17fc02ffc446b2c.jpg...
Extracting usable bits: 28734 bits
Steg retrieve: seed: 94, len: 41
root@kali:~/Downloads/misc_higher# cat out
We should blow up the bridge at midnight
```

3.What-is-this

下载个解压包, 解压后是两张图片, 用stegsolve打开其中一张, 用image combiner进行xor运算, AZADI TOWER即为flag



4. Get-the-key.txt

下载来一个解压包，解压后的文件不知道是什么，用file命令查看一下，是磁盘文件，那就先挂载下

```
root@kali:~/Downloads/misc_higher/4# file forensic100
forensic100: Linux rev 1.0 ext2 filesystem data, UUID=0b92a753-7ec9-4b20-8c0b-79c1fa140869
root@kali:~/Downloads/misc_higher/4# mount forensic100 /mnt/
root@kali:~/Downloads/misc_higher/4#
```

下载后有一大堆乱七八糟，用grep命令查找关键字“key.txt”，在1文件，cat查看是乱码，file查看是什么文件，是压缩文件，gunzip查看flag

```
root@kali:/mnt# grep -r key.txt
匹配到二进制文件 1
root@kali:/mnt# file 1
1: gzip compressed data, was "key.txt", last modified: Wed Oct 1 06:00:52 2014, from Unix, original
size 30
root@kali:/mnt# gunzip < 1
SECCON{[NL7n+-s75FrET]vU=7Z}
root@kali:/mnt# ls
1      110  122  134  146  158  17  181  193  204  216  228  24  31  43  55  67  79  90
10     111  123  135  147  159  170  182  194  205  217  229  240  32  44  56  68  8  91
100    112  124  136  148  16  171  183  195  206  218  23  241  33  45  57  69  80  92
101    113  125  137  149  160  172  184  196  207  219  230  242  34  46  58  7  81  93
102    114  126  138  15  161  173  185  197  208  22  231  243  35  47  59  70  82  94
103    115  127  139  150  162  174  186  198  209  220  232  244  36  48  6  71  83  95
104    116  128  14  151  163  175  187  199  21  221  233  25  37  49  60  72  84  96
105    117  129  140  152  164  176  188  2  210  222  234  26  38  5  61  73  85  97
106    118  13  141  153  165  177  189  20  211  223  235  27  39  50  62  74  86  98
107    119  130  142  154  166  178  19  200  212  224  236  28  4  51  63  75  87  99
108    12  131  143  155  167  179  190  201  213  225  237  29  40  52  64  76  88  lost+found
109    120  132  144  156  168  18  191  202  214  226  238  3  41  53  65  77  89
11     121  133  145  157  169  180  192  203  215  227  239  30  42  54  66  78  9
```

5. 签到题

将Z2dRQGdRMWZxaDBvaHRqcHRfc3d7Z2ZoZ3MjfQ==base64转码

为ggQ@gQ1fqh0ohtjpt_sw{gfngs#},是凯撒+栅栏,解题关键是flag格式ssctf{},所以先凯撒得到ssC@sC1rct0atfvbf_ei{srtse#}栅栏得到ssctf{ssCtf_seC10ver#@rabit}

6.Training-Stegano-1

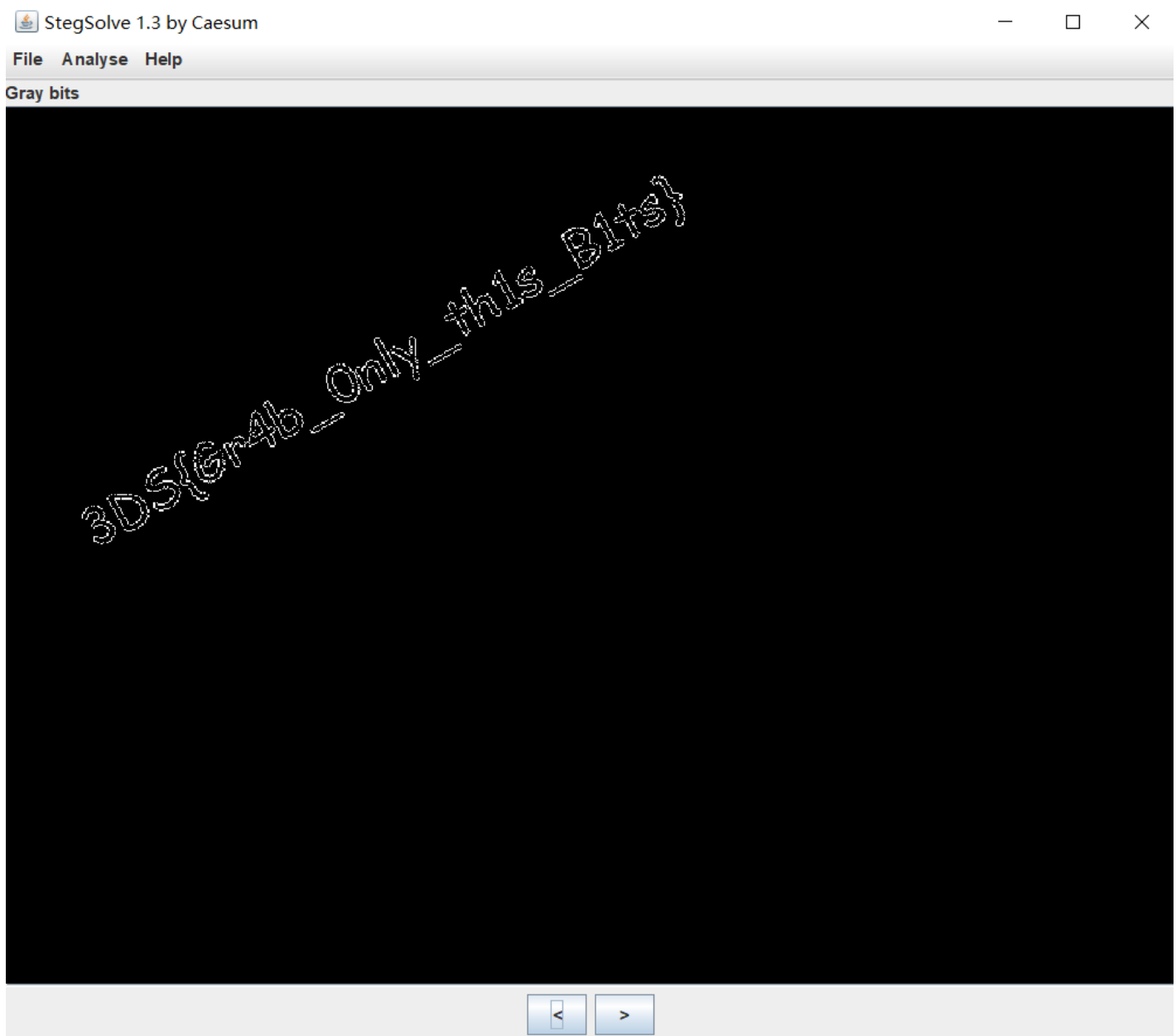
下载是一张图片,记事本打开,文本显示"passwd:steganol",flag即为steganol

7.Test-flag-please-ignore

将666c61677b68656c6c6f5f776f726c647d转换为16进制字符串flag{hello_world}

8.Excaliflag

下载图片后,用stegSolve打开图片



9.glance-50

下载来是一张gif图片,分解gif,使用convert命令分解,convert

33e3d14fb67a44f4ad1378149fff1d9a.gif flag.png共分解出200张图片

名称	大小
flag-0.png	1.6 KB
flag-1.png	1.7 KB
flag-2.png	1.7 KB
flag-3.png	1.6 KB
flag-4.png	1.7 KB
flag-5.png	1.6 KB
flag-6.png	1.7 KB
flag-7.png	1.7 KB
flag-8.png	1.6 KB
flag-9.png	1.7 KB
flag-10.png	1.7 KB
flag-11.png	1.7 KB
flag-12.png	1.7 KB
flag-13.png	1.7 KB
flag-14.png	1.7 KB
flag-15.png	1.7 KB
flag-16.png	1.7 KB

连接这些图片，使用montage 命令，`montage flag*.png -tile x1 -geometry +0+0 flag.png`

-tile是拼接时每行和每列的图片数，这里用x1，就是只一行

-geometry是首选每个图和边框尺寸，我们边框为0，图照原始尺寸即可



*这里参考了：https://blog.csdn.net/zz_Caleb/article/details/89490494

10.4-2

下载后是一个txt文件，里面是不知道是什么，到这个网站<https://quipqiup.com/>进行词频分析，flag即为
flag{classical-cipher_is_not_security_hs}

quipqiup BETA

quipqiup is a fast and automated cryptogram solver by [Edwin Olson](#). It can solve simple substitution ciphers often found in newspapers, including puzzles like cryptoquips (in which word boundaries are preserved) and patristocrats (inwhi chwor dboun darie saren t).

Puzzle:

Eg qnlyjtcnzydl z umaujejmjetg qeydsn eu z bsjdtx tw sgqtxeco al kdeqd mgeju tw yrzegjsoj zns nsyrzqsx kejd qeydsnjsoj
Ew ltm fgk jds kzl tw sgqtxeco m kerr csj jds wrzc kdeqd eu qrzuueqzr-qeydsn_eu_gtj_usqmnejl_du

Clues: For example G=R QVW=THE

auto

Solve

0	-1.593	In cryptography a substitution cipher is a method of encoding by which units of plaintext are replaced with ciphertext If you know the way of encoding u will get the flag which is <u>classical-cipher_is_not_security_hs</u>
1	-1.785	In cryptography a substitution cipher is a method of encoding by which units of plaintext are replaced with ciphertext If you know the way of encoding u will get the flag which is classical-cipher_is_not_security_hs
2	-1.889	In cryptography a substitution cipher is a method of encoding by which units of plaintext are replaced with ciphertext If you know the way of encoding u will get the flag which is classical-cipher_is_not_security_hs
3	-1.944	In cryptography a substitution cipher is a method of encoding by which units of plaintext are replaced with ciphertext If you know the way of encoding u will get the flag which is classical-cipher_is_not_security_hs

11.misc1

misc1 最佳Writeup由admin提供

难度系数: ★ 1.0

题目来源: DDCTF-2018

题目描述: d4e8e1f4a0f7e1f3a0e6e1f3f4a1a0d4e8e5a0e6ece1e7a0e9f3baa0c4c4c3d4c6fbb9e1e6b3e3b9e4b3b7b7e2b6b1e4b2b6b9e2b1b1b3b3b7e6b3b3b0e3b9b3b5e6fd

题目场景: 暂无

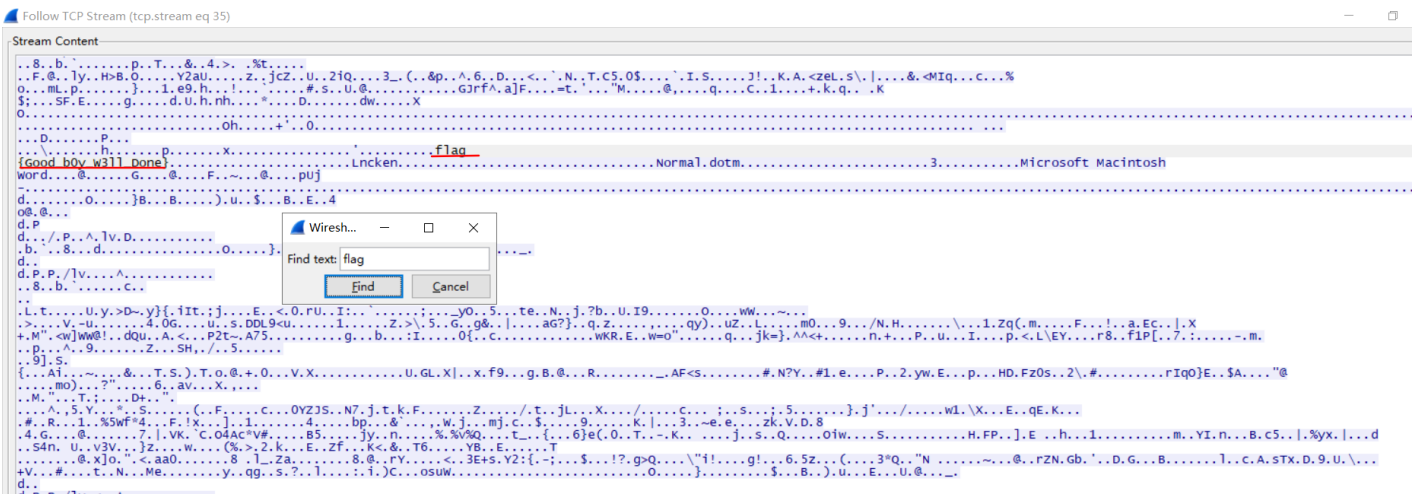
题目附件: 暂无

猜测16进制转换字符串，直接转失败转不出来，flag为DDCTF{9af3c9d377b61d269b11337f330c935f}

```
string="d4e8e1f4a0f7e1f3a0e6e1f3f4a1a0d4e8e5a0e6ece1e7a0e9f3baa0c4c4c3d4c6fbb9e1e6b3e3b9e4b3b7b7e2b6b1e4b2b6b9e2b1b1b3b3b7e6b3b3b0e3b9b3b5e6fd"
flag=""
for i in range (0,len(string),2):
    s = "0x" + string[i] + string[i+1]
    flag += chr(int(s,16) -128)
print(flag)
```

12.eczmbarrass

下载压缩包解压后是一个流量包，用wireshark打开，搜索关键词flag后，追踪tcp流，在里面搜索flag，可以看到flag



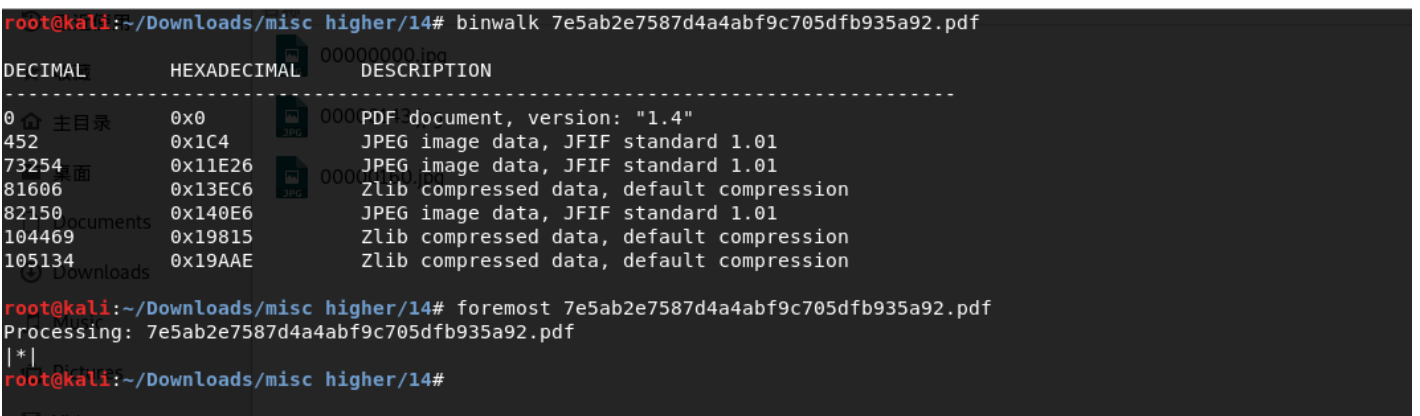
13.肥宅快乐题

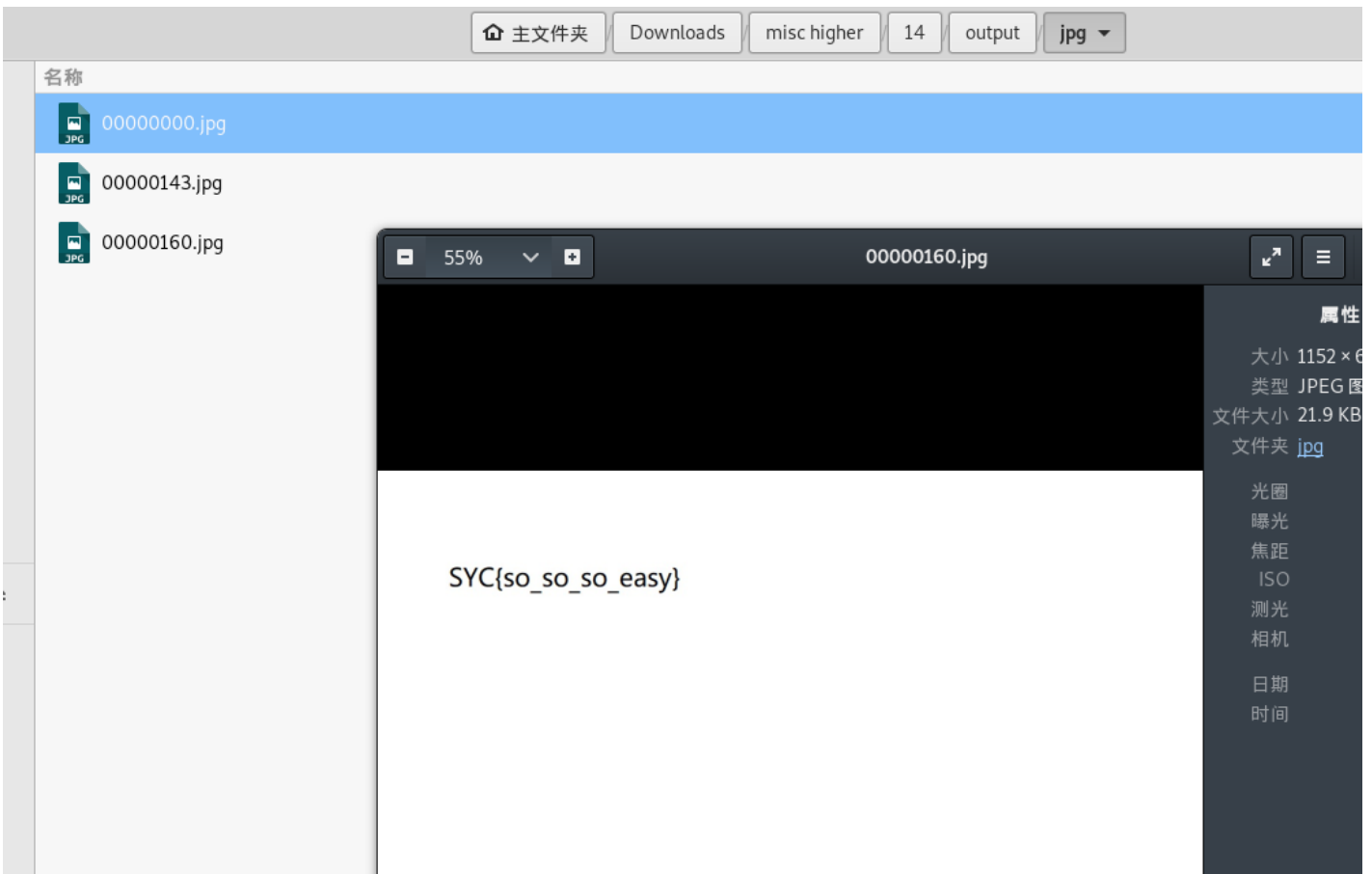
下载后是一个swf文件，是一个游戏，用potplayer打开定位57帧，出现对话里面有U1De0YzaVpoYWlfa3U0aWxlX1QxMTF9，base64解码后为SYC{F3iZhai_ku4ile_T111}，即为flag



14.小小的PDF

下载后是pdf文件，用binwalk分析，有点东西，用foremost分解东西，flag藏在分解的图片里





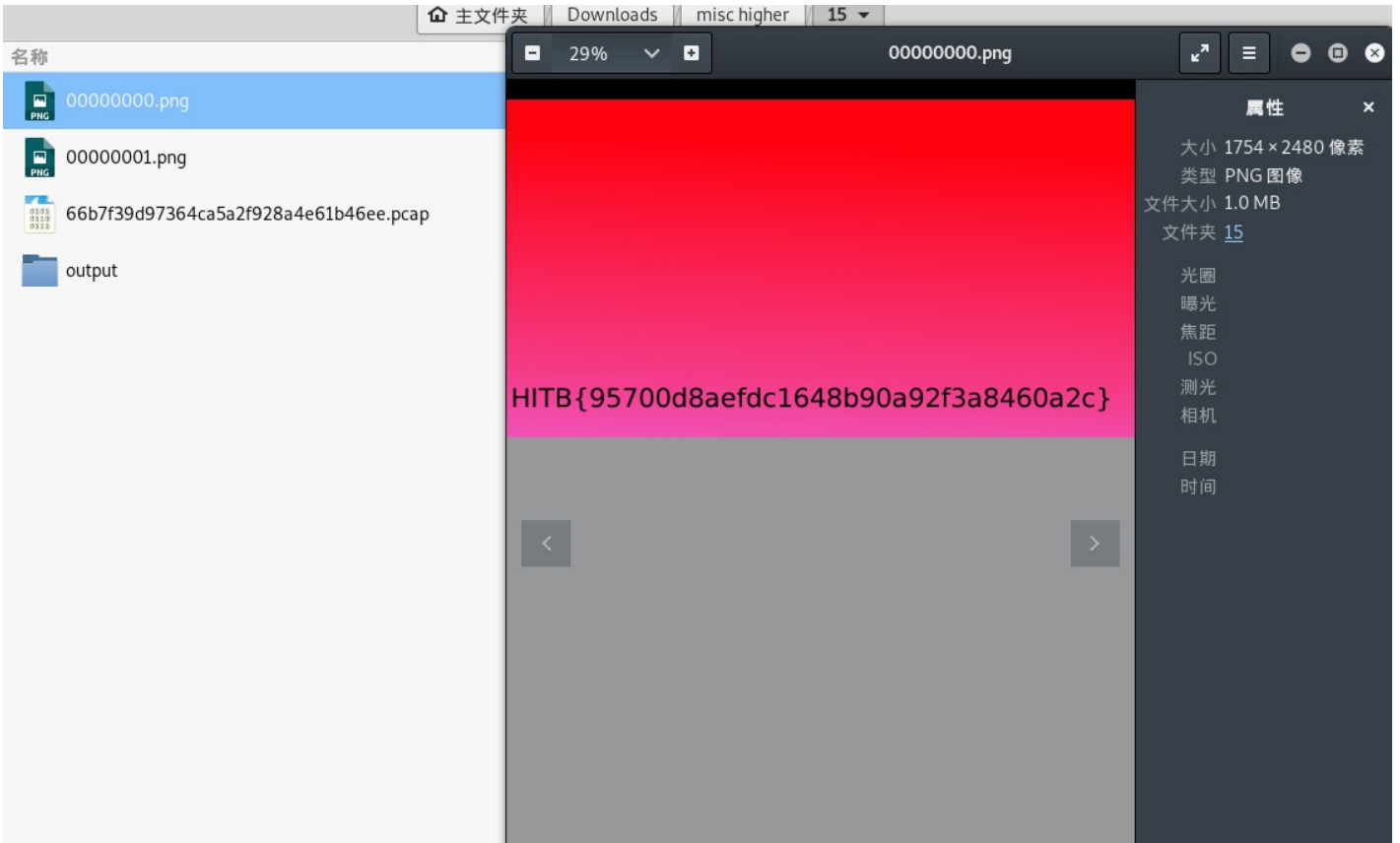
15.Cephalopod

下载后是一个流量包，用wireshark打开，flag关键字找到flag.png，但是却弄不出来图片。用binwalk看一下有点东西，foremost搞不出来图片

```
root@kali: ~/Downloads/misc higher/15
root@kali:~/Downloads/misc higher/15# binwalk 66b7f39d97364ca5a2f928a4e61b46ee.pcap
DECIMAL      HEXADECIMAL  DESCRIPTION
-----
0            0x0          Libpcap capture file, little-endian, version 2.4, Ethernet, snaplen: 262144
26441       0x6749       PNG image, 1754 x 2480, 8-bit/color RGBA, non-interlaced
26577       0x67D1       Zlib compressed data, best compression
root@kali:~/Downloads/misc higher/15# foremost 66b7f39d97364ca5a2f928a4e61b46ee.pcap
Processing: 66b7f39d97364ca5a2f928a4e61b46ee.pcap
|*| Pictures
root@kali:~/Downloads/misc higher/15# ls output/
audit.txt
root@kali:~/Downloads/misc higher/15#
```

了解到有tcpextract这个工具，Tcpextract是一种基于文件签名从网络流量中提取文件的工具。安装tcpextract，并使用分离图片出来，flag值出来了


```
root@kali:~/Downloads/misc_higher/15# apt-get install tcpxtract
正在读取软件包列表... 完成
正在分析软件包的依赖关系树
正在读取状态信息... 完成
下列【新】软件包将被安装：
 tcpxtract
升级了 0 个软件包，新安装了 1 个软件包，要卸载 0 个软件包，有 2120 个软件包未被升级。
需要下载 17.1 kB 的归档。
解压缩后会消耗 56.3 kB 的额外空间。
获取:1 http://mirrors.aliyun.com/kali kali-rolling/main amd64 tcpxtract amd64 1.0.1-13 [17.1 kB]
已下载 17.1 kB, 耗时 1秒 (28.0 kB/s)
正在选中未选择的软件包 tcpxtract。
(正在读取数据库 ... 系统当前共安装有 370625 个文件和目录。)
正准备解包 .../tcpxtract 1.0.1-13_amd64.deb ...
正在解包 tcpxtract (1.0.1-13) ...
正在设置 tcpxtract (1.0.1-13) ...
正在处理用于 man-db (2.8.4-2+b1) 的触发器 ...
root@kali:~/Downloads/misc_higher/15# ls
66b7f39d97364ca5a2f928a4e61b46ee.pcap output
root@kali:~/Downloads/misc_higher/15# tcpxtract -f 66b7f39d97364ca5a2f928a4e61b46ee.pcap Found file of type "png" in session
Found file of type "png" in session [10.0.2.7:49818 -> 10.0.2.10:36890], exporting to 00000000.png
Found file of type "png" in session [10.0.2.7:49818 -> 10.0.2.10:36890], exporting to 00000001.png
```



16.hit-the-core

下载后是.core文件，.core文件是Linux的文件，用strings命令查看，看到一段特殊的文段

Offset	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	ANSI	ASCII
00000000	89	50	4E	47	0D	0A	1A	0A	00	00	00	0D	49	48	44	52	%PNG	IHDR
00000010	00	00	00	00	00	00	02	F8	08	06	00	00	00	93	2F	8A	ø	"/š
00000020	6B	00	00	00	04	67	41	4D	41	00	00	9C	40	20	0D	E4	k	gAMA œ@ ä
00000030	CB	00	00	00	20	63	48	52	4D	00	00	87	0F	00	00	8C	È	cHRM † Ğ
00000040	0F	00	00	FD	52	00	00	81	40	00	00	7D	79	00	00	E9		ýR @ }y é
00000050	8B	00	00	3C	E5	00	00	19	CC	73	3C	85	77	00	00	0A	<	<ã ìs<...w
00000060	39	69	43	43	50	50	68	6F	74	6F	73	68	6F	70	20	49	9i	CCPPPhotoshop I
00000070	43	43	20	70	72	6F	66	69	6C	65	00	00	48	C7	9D	96	CC	profile HÇ -
00000080	77	54	54	D7	16	87	CF	BD	77	7A	A1	CD	30	D2	19	7A	wTT*	†İ½wz;Í0Ò z
00000090	93	2E	30	80	F4	2E	20	1D	04	51	18	66	06	18	CA	00	`.	0eó. Q f Ê
000000A0	C3	0C	4D	6C	88	A8	40	44	11	11	01	45	90	A0	80	01	Ã	Ml^"@D E e
000000B0	A3	A1	48	AC	88	62	21	28	A8	60	0F	48	10	50	62	30	£;	H-^b!(`` H Pb0
000000C0	8A	A8	A8	64	46	D6	4A	7C	79	79	EF	E5	E5	F7	C7	BD	Š	""dFÖJ yyiää÷Ç½
000000D0	DF	DA	67	EF	73	F7	D9	7B	9F	B5	2E	00	24	4F	1F	2E	BÚ	gis÷Ù{ÿµ. ŞO .
000000E0	2F	05	96	02	20	99	27	E0	07	7A	38	D3	57	85	47	D0	/	- ¨'à z8ÓW...GD
000000F0	B1	FD	00	06	78	80	01	A6	00	30	59	E9	A9	BE	41	EE	±ý	x€ ; 0Yé€¾Aí
00000100	C1	40	24	2F	37	17	7A	BA	C8	09	FC	8B	DE	0C	01	48	Á	@\$/7 z°È ù<P H
00000110	FC	BE	65	E8	E9	4F	A7	83	FF	4F	D2	AC	54	BE	00	00	ü¾	eèéOŠfy0Ò-T¾
00000120	C8	5F	C4	E6	6C	4E	3A	4B	C4	F9	22	4E	CA	14	A4	8A	È	Äæ1N:KÄù"NÊ ¨Š
00000130	ED	33	22	A6	C6	24	8A	19	46	89	99	2F	4A	50	C4	72	í3"	!ÆŠŠ F¾™/JPÄr
00000140	62	8E	5B	E4	A5	9F	7D	16	D9	51	CC	EC	64	1E	5B	C4	bŽ	[æ¥ÿ} ÙQìid [Ä
00000150	E2	9C	53	D9	C9	6C	31	F7	88	78	7B	86	90	23	62	C4	âæSÙÉ11÷^x{† #bÄ	
00000160	47	C4	05	19	5C	4E	A6	88	6F	8B	58	33	49	98	CC	15	GÄ	\N ^o<X3I~î
00000170	F1	5B	71	6C	32	87	99	0E	00	8A	24	B6	0B	38	AC	78	ñ	[ql2+™ Š\$Ŧ 8-x
00000180	11	9B	88	98	C4	0F	0E	74	11	F1	72	00	70	A4	B8	2F	>^~Ä	t ñr p¾,/
00000190	38	E6	0B	16	70	B2	04	E2	43	B9	A4	A4	66	F3	B9	71	8æ	p² âC¹¾¾fó¹q

)这里涉及了png文件格式

Offset	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	IDCH	
00000000	89	50	4E	47	0D	0A	1A	0A	00	00	00	0D	49	48	44	52	I PNG	IHDR
00000010	00	00	00	00	02	9C	00	00	01	DD	08	06	00	00	00	FE	I	Y
00000020	B6	00	00	00	04	73	42	49	54	08	08	08	08	7C	08	08	I	BIT
00000030	88	00	00	00	09	70	48	59	73	00	00	0B	12	00	00	0B	I	pHYs
00000040	12	01	D2	DD	7E	FC	00	00	00	16	74	45	58	74	43	72	òY~ü	tEXtCr
00000050	65	61	74	69	6F	6E	20	54	69	6D	65	00	31	32	2F	31	eat	ion Time 12/1

(固定) 八个字节89 50 4E 47 0D 0A 1A 0A为png的文件头

(固定) 四个字节00 00 00 0D (即为十进制的13) 代表数据块的长度为13

(固定) 四个字节49 48 44 52 (即为ASCII码的IHDR) 是文件头数据块的标示 (IDCH)

(可变) 13位数据块 (IHDR)

前四个字节代表该图片的宽

后四个字节代表该图片的高

后五个字节依次为: Bit depth、ColorType、Compression method、Filter method、Interlace method

(可变) 剩余四字节为该png的CRC校验码, 由从IDCH到IHDR的十七位字节进行crc计算得到。

使用tweakpng这个工具计算crc校验码

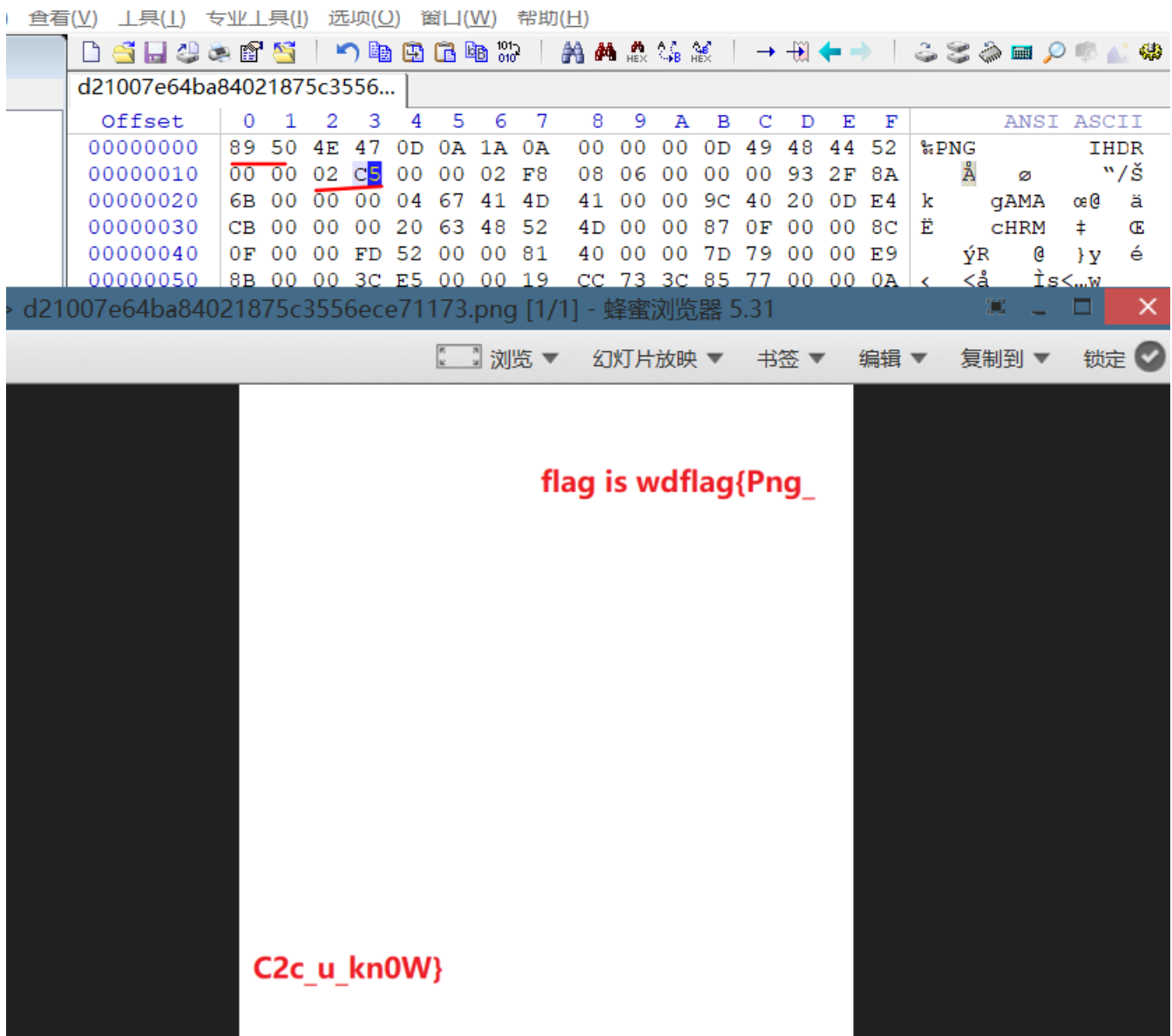


Incorrect crc for IHDR chunk (is 932f8a6b, should be 55d5f64f)

确定

使用脚本跑出正确的宽709，在windex修改成十六进制为02c5。

```
1 import struct
2 import binascii
3 import os
4
5 m = open("misc4.png", "rb").read()
6 for i in range(1024):
7     c = m[12:16] + struct.pack('>i', i) + m[20:29]
8     crc = binascii.crc32(c) & 0xffffffff
9     if crc == 0x932f8a6b:
10         print(i)
11
```



19.János-the-Ripper

下载压缩吧解压后不知道是什么文件，用file命令查看下是zip文件，改文件后缀名zip，解压需要密码，进行密码爆破为fish，flag为flag{ev3n::y0u::bru7us?!}

20.2017_Dating_in_Singapore

题目为新加坡2017日历，附件解压打开时一张2017新加坡的日历，根据给出的数字进行连线，可得flag

2017_Dating_in_Singapore 最佳Writeup由admin提供

难度系数: ★★★★ 3.0
WP
建议

题目来源: XCTF 3rd-HITB CTF-2017

题目描述: 01081522291516170310172431-050607132027262728-0102030209162330-02091623020310090910172423-02010814222930-0605041118252627-0203040310172431-0102030108152229151617-04050604111825181920-0108152229303124171003-261912052028211407-04051213192625

题目场景: 暂无

题目附件: 附件1 ↓

Calendar for Year 2017 (Singapore)

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

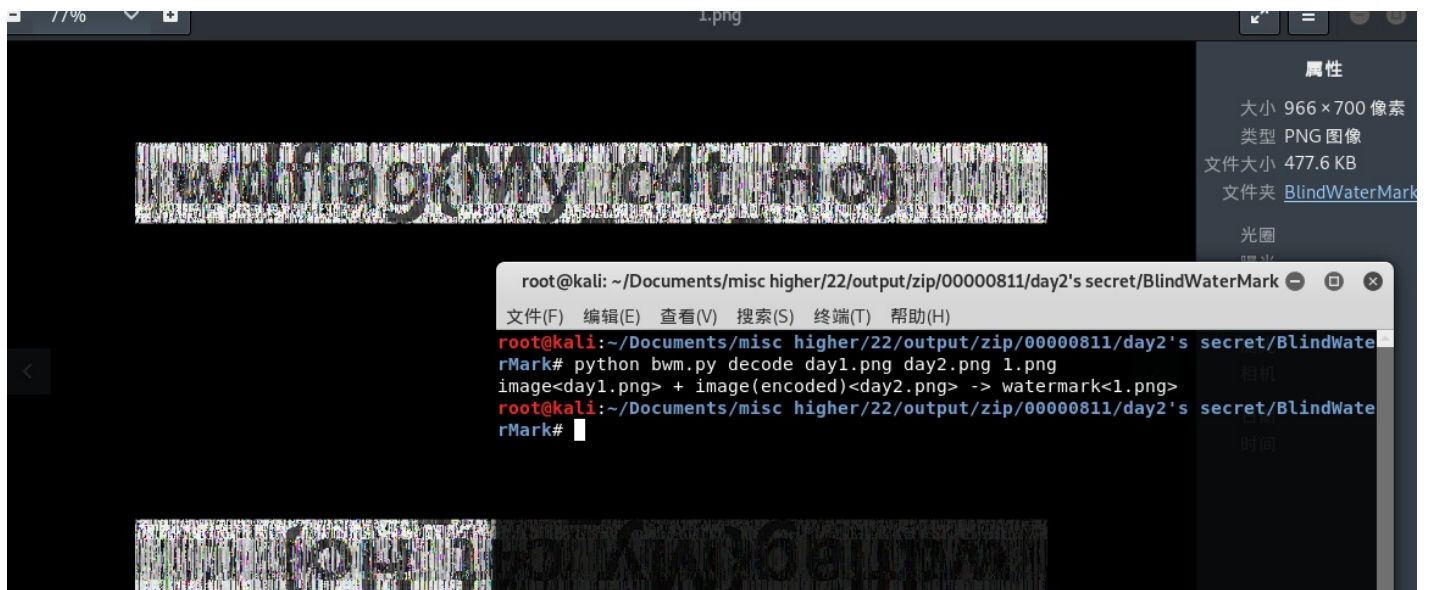
21神奇的Modbus

下载下来是一个流量包，用wireshark打开，搜索关键字flag，追踪数据流，这里搜索关键字没用，全部查看下来发现这里有flag，flag为scft{Easy_Modbus}，要多加一个o

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.....G.....z.....
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.....5..2.....!.....
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.....R.....X.....
.....g.....].....
.....X.....*.....!.....
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22.4-1

下载下来是一张图片，用binwalk查看一下，有点东西，foremost分离出来两张图片，用盲水印攻击，加密脚本：<https://github.com/chishaxie/BlindWaterMark>



23.can_has_stdio?

下载解压包解压得文件用记事本打开，看到得<,>,+,-,.,[,]等符号组成得五角星，可以猜测是Brainfuck语言了，

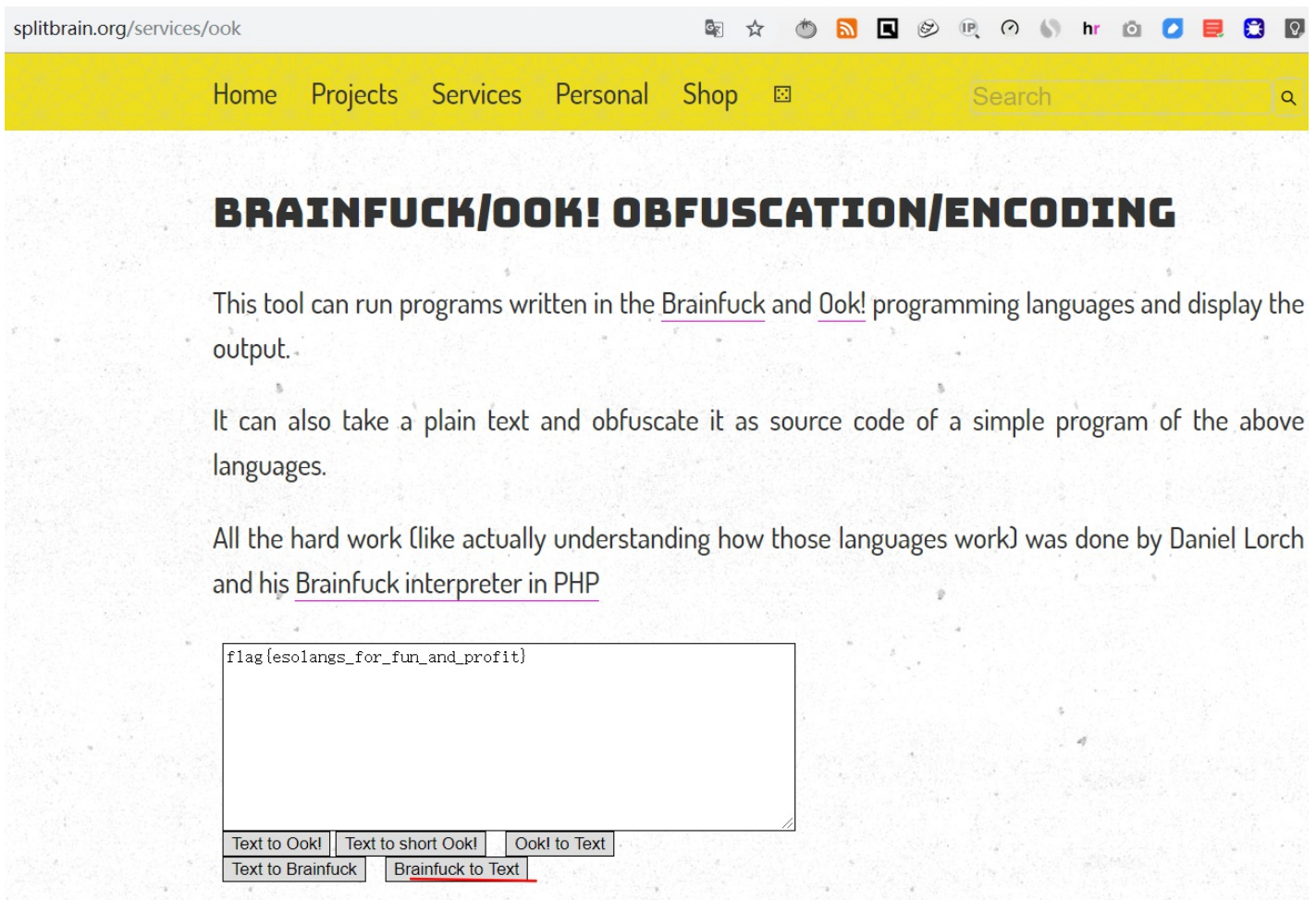
下面是这八种状态的描述，其中每个状态由一个字符标识：

字符	含义
>	指针加一
<	指针减一
+	指针指向的字节的价值加一
-	指针指向的字节的价值减一
.	输出指针指向的单元内容（ASC II 码）
,	输入内容到指针指向的单元（ASC II 码）
[如果指针指向的单元值为零，向后跳转到对应的]指令的次一指令处
]	如果指针指向的单元值不为零，向前跳转到对应的[指令的次一指令处

（按照更节省时间的简单说法，"]"也可以说成“向后跳转到对应的 "[" 状态”。这两解释是一样的。）

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到<https://www.splitbrain.org/services/ook>这个网站翻译Brainfuck为文本



24.5-1

考察xortool工具的使用，安装python库pip2 install xortool,猜测最有可能得密钥长度为13,

xortool cd2a80e1b48e44b5a830605e684ffb31 -l 13 -c 20 // -l 指定密钥长度 -c 表示出现频率最高的字符。

```
root@kali:~/Downloads/misc higher/24# xortool cd2a80e1b48e44b5a830605e684ffb31
The most probable key lengths:
 2: 12.2%
-5:ach11.9% <dir>
-9:0-c9.8%-dir
13:is:22.2%ip-version-check
20: 6.8%
22: 6.2%
26: 12.8%
30:0-c4.6%
39:ka7.8%Downloads/misc higher/22/output/zip/00000811/day2's secret# pip install --upgrade pip
52:ct:5.7%ip
Key-length can be 3*n/files.pythonhosted.org/packages/30/db/9e38760b32e3e7f40cce46dd5fb107b8c73840df38f
Most possible char is needed to guess the key!4MB 677KB/s
root@kali:~/Downloads/misc higher/24# xortool cd2a80e1b48e44b5a830605e684ffb31 -l 13 -c 20
1 possible key(s) of length 13: pip 18.1
Good\luckToYou
Found 1 plaintexts with 95.10%+ valid characters
See files filename-key.csv, filename-char_used-perc_valid.csv
root@kali:~/Downloads/misc higher/24# ls
```

使用脚本解密出原文，flag为wdflag{You Are Very Smart}

```
Downloading https://files.pythonhosted.org/packages/1e/c8/3/
import os
Requirement already satisfied: numpy>=1.11.1 in /usr/lib/pytho
c = open("cd2a80e1b48e44b5a830605e684ffb31", 'rb').read()
key = "GoodLuckToYou"
def xor(c,k):
    keylen = len(k)
    for pos, cy in enumerate(c):
        res += chr(ord(c) ^ ord(k[pos % keylen]))
    return res
print xor(c, key)
remote: Total 32 (delta 0), reused 0 (delta 0), pack-reused 32
展开对象中: 100% (32/32), 完成。
```

```
root@kali:~/Downloads/misc higher/24# python test.py
The opening line of the novel famously announces: "It is a truth universally acknowledged, that a single man in possession of a good fortune must be in want of a wife." This sets marriage as a central subject—and really, a central problem—for the novel generally. Readers are poised to question whether or not these single men are, in fact, in want of a wife, or if such desire is motivated by the "neighbourhood" families and their daughters who require a "good fortune". Marriage is a complex social activity that takes political, economic, and economy more generally, into account. In the case of Charlotte Lucas, for example, the seeming success of her marriage lies in the comfortable economy of their household, while the relationship between Mr and Mrs Bennet illustrates bad marriages based on an initial attraction and surface over substance (economic and psychological). The Bennets' marriage is one such example that the youngest Bennet, Lydia, comes to re-enact with Wickham, and the results are far from felicitous. wdflag{You Are Very Smart} Though the central characters, Elizabeth and Darcy, begin the novel as hostile acquaintances and unlikely friends, they eventually work to understand each other and themselves so that they can marry each other on compatible terms personally, even if their "equal" social status remains a barrier. When Elizabeth rejects Darcy's first proposal, the argument of only marrying when one is in love is introduced. Elizabeth only accepts Darcy's proposal when she is certain she loves him and her feelings are reciprocated. Austen's complex sketching of different marriages ultimately allows readers to question what forms of alliance are desirable, especially when it comes to economic, sexual, companionate attraction.
```

25.MISC

下载解压后不知道是什么文件，用file命令查看一下，是bzip2文件，修改文件后缀名为.bz2,解压文件

```
root@kali:~/Downloads/misc higher/25# file e4a1278fef074ffd89b5bd9b789527b5
e4a1278fef074ffd89b5bd9b789527b5: bzip2 compressed data, block size = 900k
root@kali:~/Downloads/misc higher/25# tar -xjvf e4a1278fef074ffd89b5bd9b789527b5.bz2
ctf/
ctf/flag.txt
ctf/.git/
ctf/.git/description
ctf/.git/refs/
ctf/.git/refs/heads/
ctf/.git/refs/heads/master
ctf/.git/refs/stash
ctf/.git/refs/tags/
ctf/.git/ORIG_HEAD
ctf/.git/logs/
ctf/.git/logs/refs/
```

发现是git目录，里面有个flag.txt文件不过flag值.git log查看git日志，git stash list列出所有保存的进度列表，git stash apply恢复暂缓区的内容，有s.py文件，运行一下可以得到flag

```
root@kali:~/Downloads/misc_higher/25# cd ctf/
root@kali:~/Downloads/misc_higher/25/ctf# git log
commit bea99b953bef6cc2f98ab59b10822bc42afe5abc (HEAD -> master)
Author: Linus Torvalds <torvalds@klaava.Helsinki.Fi>
Date: Thu Jul 24 21:16:59 2014 +0200

Initial commit
root@kali:~/Downloads/misc_higher/25/ctf# git stash list
stash@{0}: WIP on master: bea99b9 Initial commit
root@kali:~/Downloads/misc_higher/25/ctf# git stash show
flag.txt | 25 ++++++
s.py | 4 ++++
2 files changed, 28 insertions(+), 1 deletion(-)
root@kali:~/Downloads/misc_higher/25/ctf# git stash apply
位于分支 master
要提交的变更:
(使用 "git reset HEAD <文件>..." 以取消暂存)

新文件: s.py

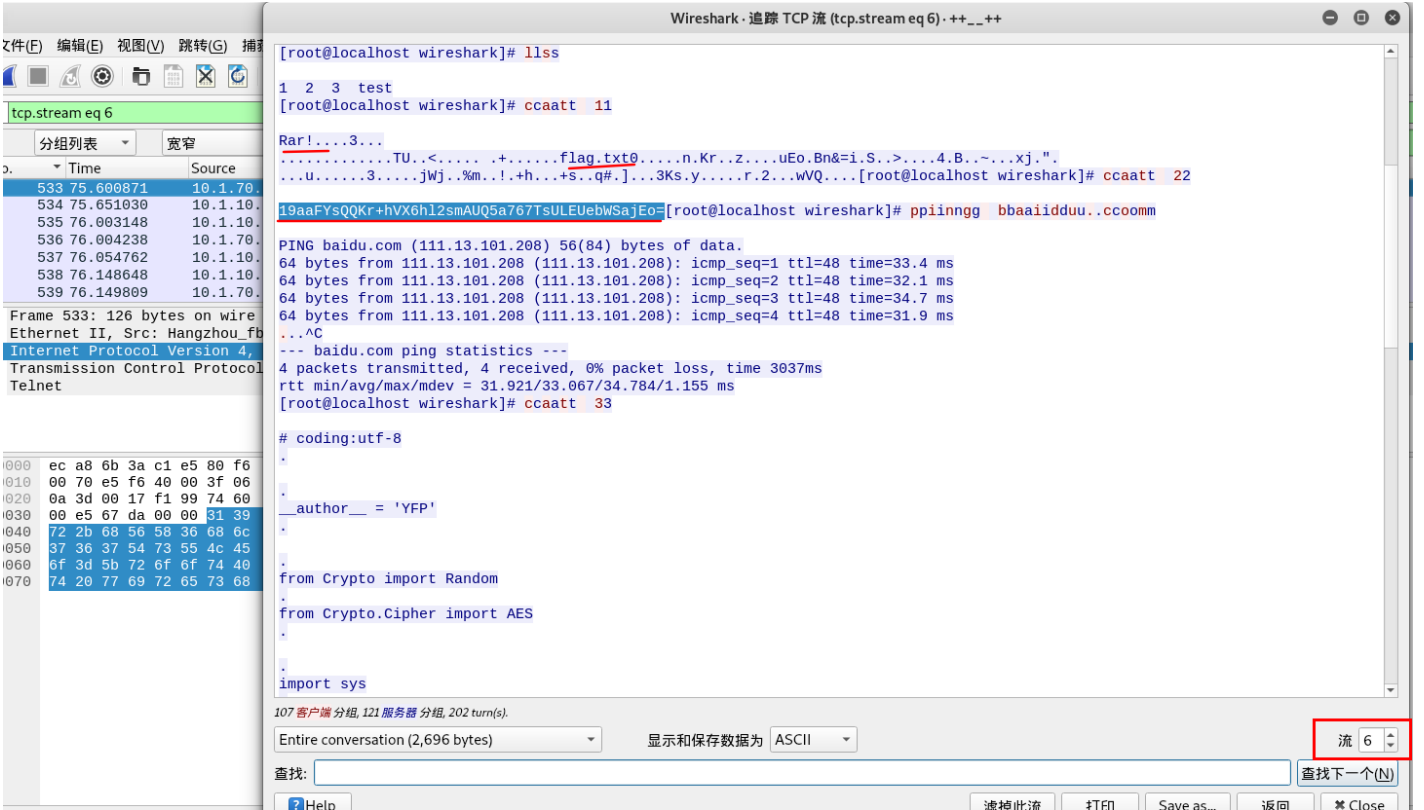
尚未暂存以备提交的变更:
(使用 "git add <文件>..." 更新要提交的内容)
(使用 "git checkout -- <文件>..." 丢弃工作区的改动)

修改: flag.txt

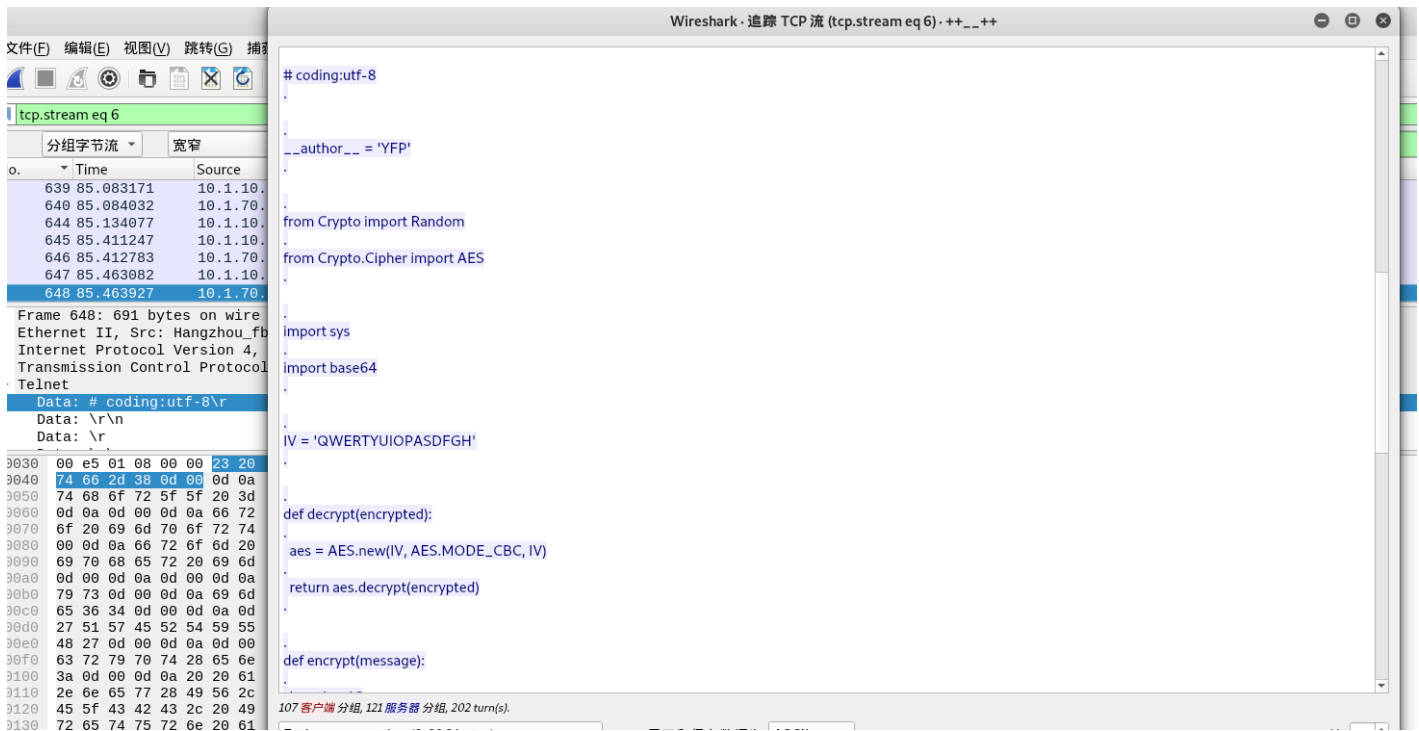
root@kali:~/Downloads/misc_higher/25/ctf# python s.py
NCN4dd992213ae6b76f27d7340f0dde122888df4d3
root@kali:~/Downloads/misc_higher/25/ctf#
```

26.3-1

下载下来是rar压缩包，不过文件没有文件后缀名，binwalk查看得rar，添加.rar文件后缀名，提取压缩包出来时一个流量包，用wireshark打开，搜索flag关键字，追踪数据流，在第6个流可以看到flag.rar,base64编码



导出对象，选择http， flag.rar文件， 解压需要密码， 可以从数据流中可以看解密脚本多半时压缩包密码

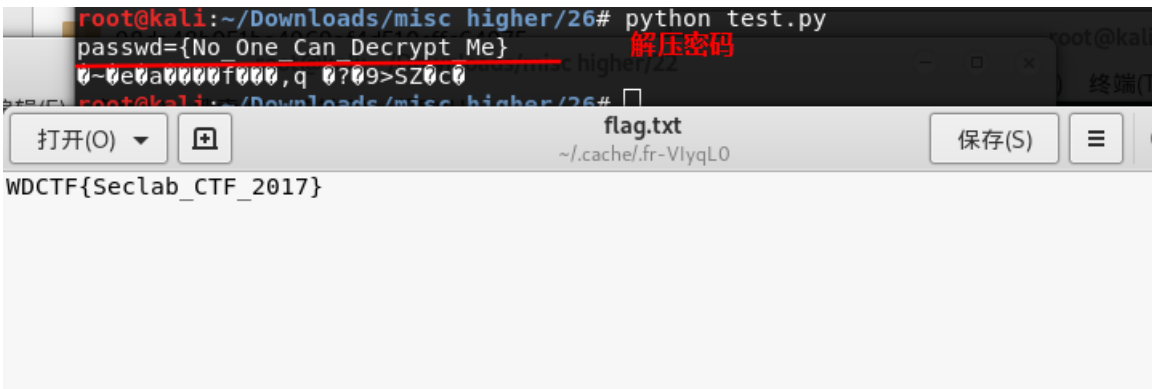


提取出来整合修改下

```
# coding:utf-8
from Crypto import Random
from Crypto.Cipher import AES
import sys
import base64
IV = 'QWERTYUIOPASDFGH'
def decrypt(encrypted):
    aes = AES.new(IV, AES.MODE_CBC, IV)
    return aes.decrypt(encrypted)

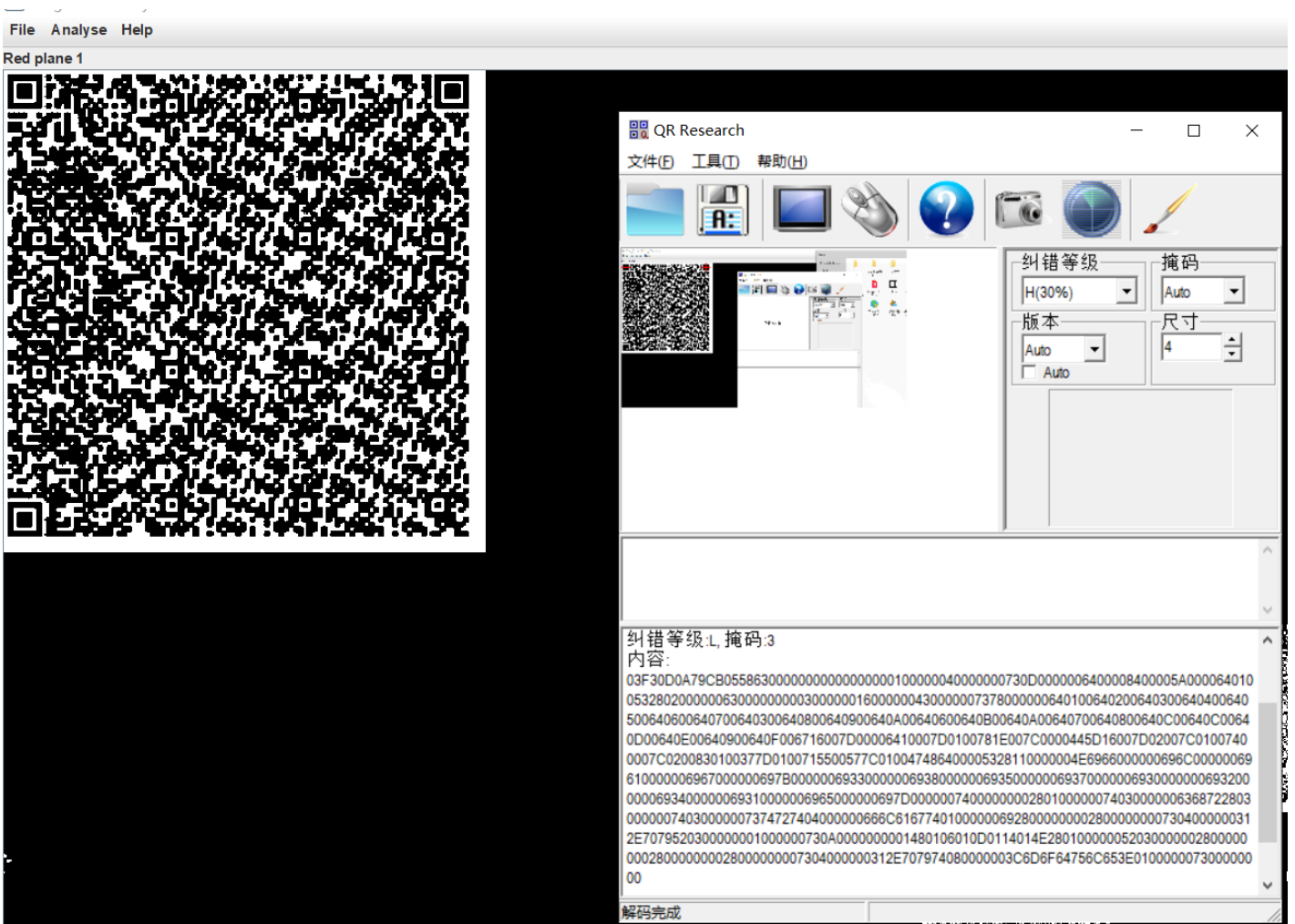
def encrypt(message):
    length = 16
    count = len(message)
    padding = length - (count % length)
    message = message + '\0' * padding
    aes = AES.new(IV, AES.MODE_CBC, IV)
    return aes.encrypt(message)
str = '19aaFYsQQKr+hVX6h12smAUQ5a767TsULEUebWSajEo='
example = decrypt(base64.b64decode(str))
print example
print decrypt(example)
```

脚本运行一下，打开flag.txt即可看到flag

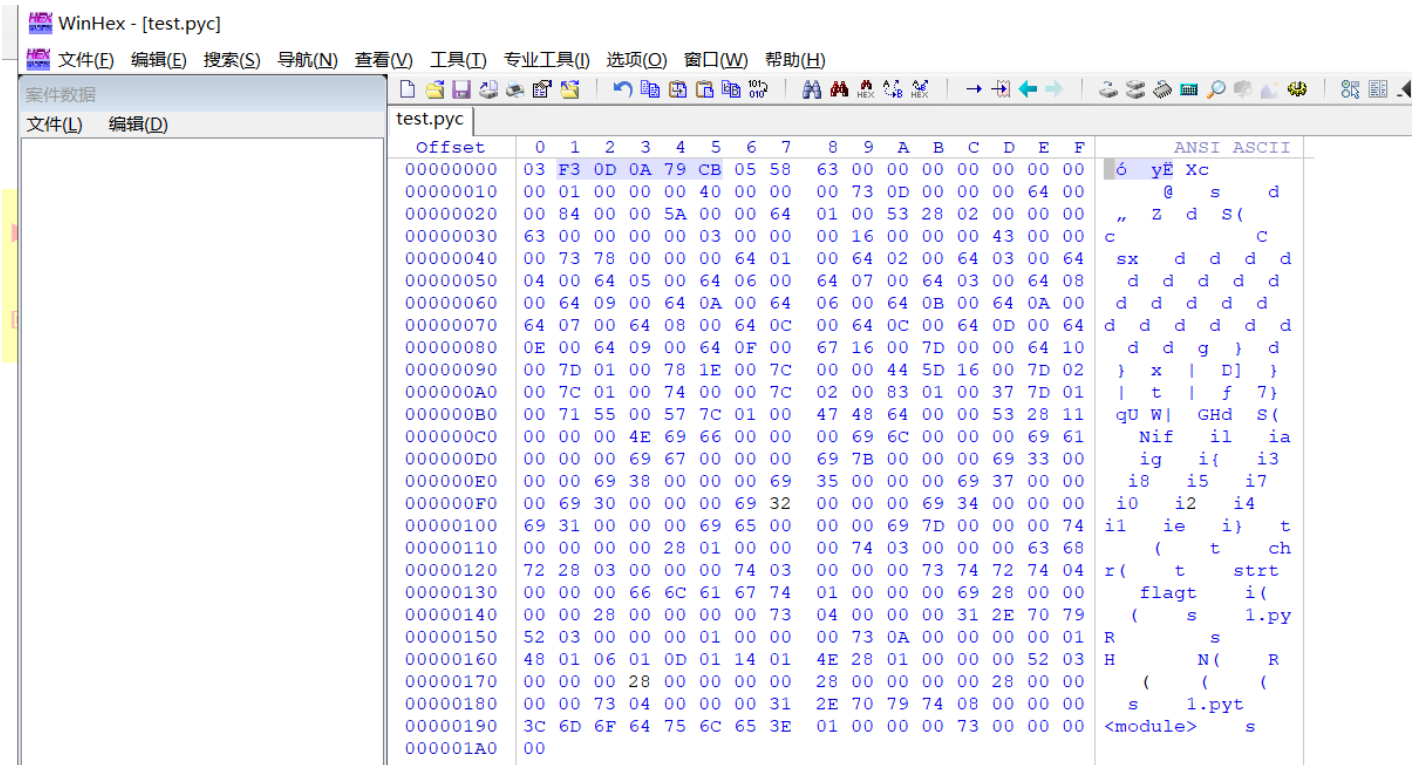


27.适合作为桌面

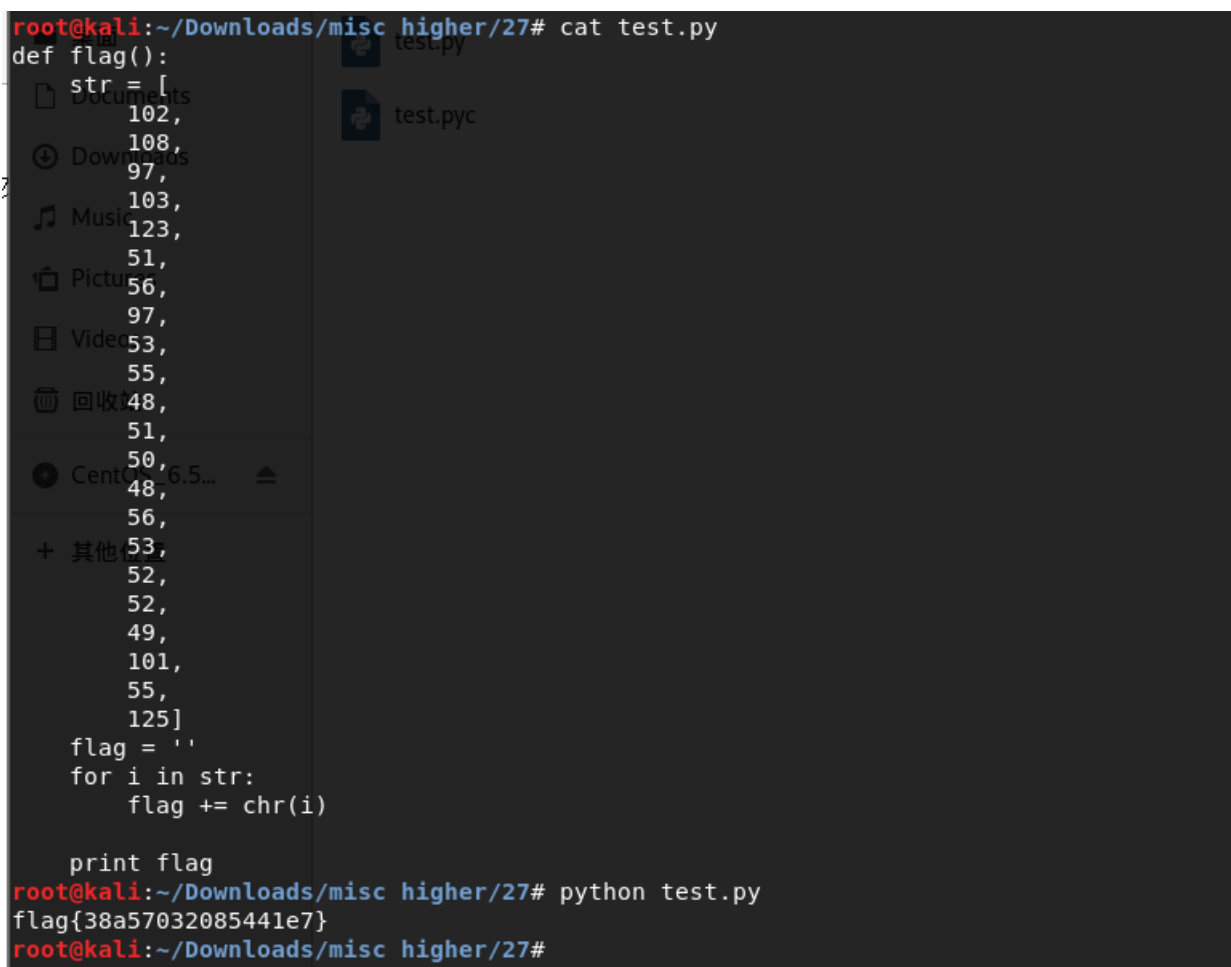
下载压缩包解压是一张图片，放stegsolve弄一下，可以看到一个二维码，扫一下可以看到一串数字



这是一串十六进制的数字，在winhex里创建一份文件，把这些数字写进去，保存为.pyc

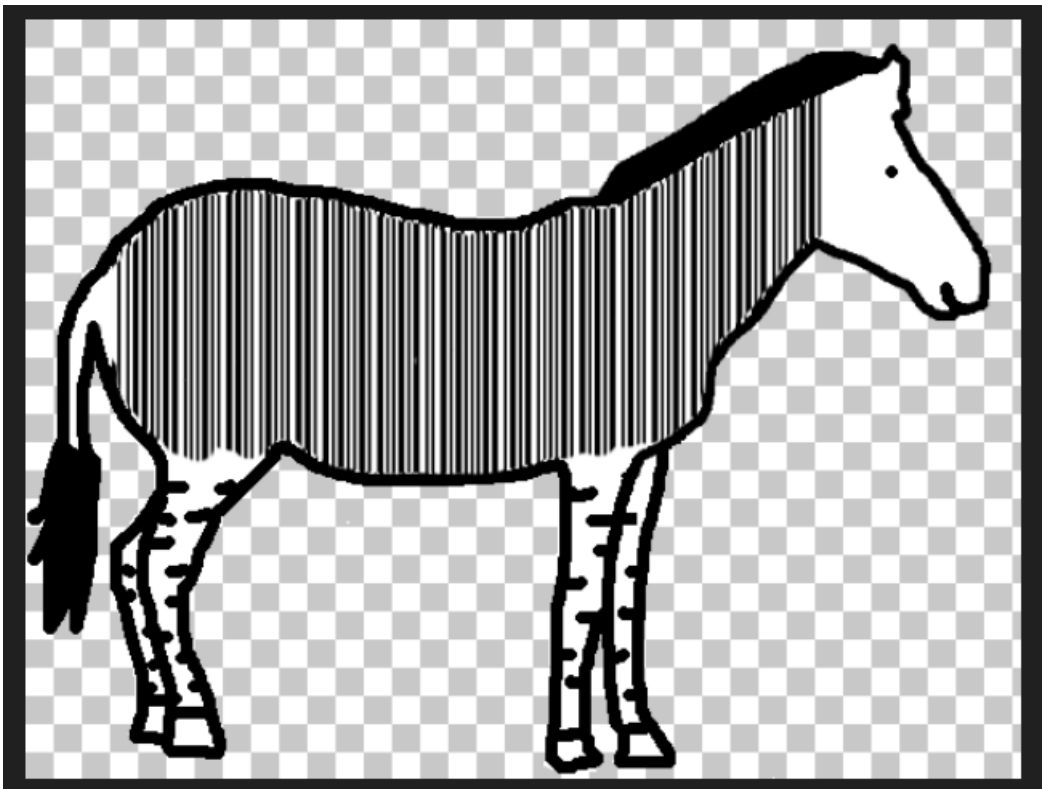


到<https://tool.lu/pyc/>这个网站解密pyc文件，解密出来python脚本跑一下即为flag



28.Banmabanma

下载下来是一张斑马的图片，猜测是条形码



到<https://online-barcode-reader.inliterate.com/>解码一下，都不用ps一下了，nb

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@inliterate.com email your sales inquiries to sales@inliterate.com

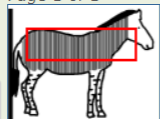
File: **斑马斑马.png** New File

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}

Page 1 of 1

FLAG IS TENSHINE



Barcode Reader Software Development Kit (SDK). Decode barcodes in C#, VB, Java, C/C++, Delphi, PHP and other languages.

[Get ClearImage SDK](#)

Barcode Director. Barcode scanner application renames, sorts and splits documents using barcode values.

[Get Barcode Director](#)

Barcode Reader Web Server with RESTful API. Client SDKs for JavaScript, .NET (C# or VB), Java, Node.js, PHP, Python or Ruby.

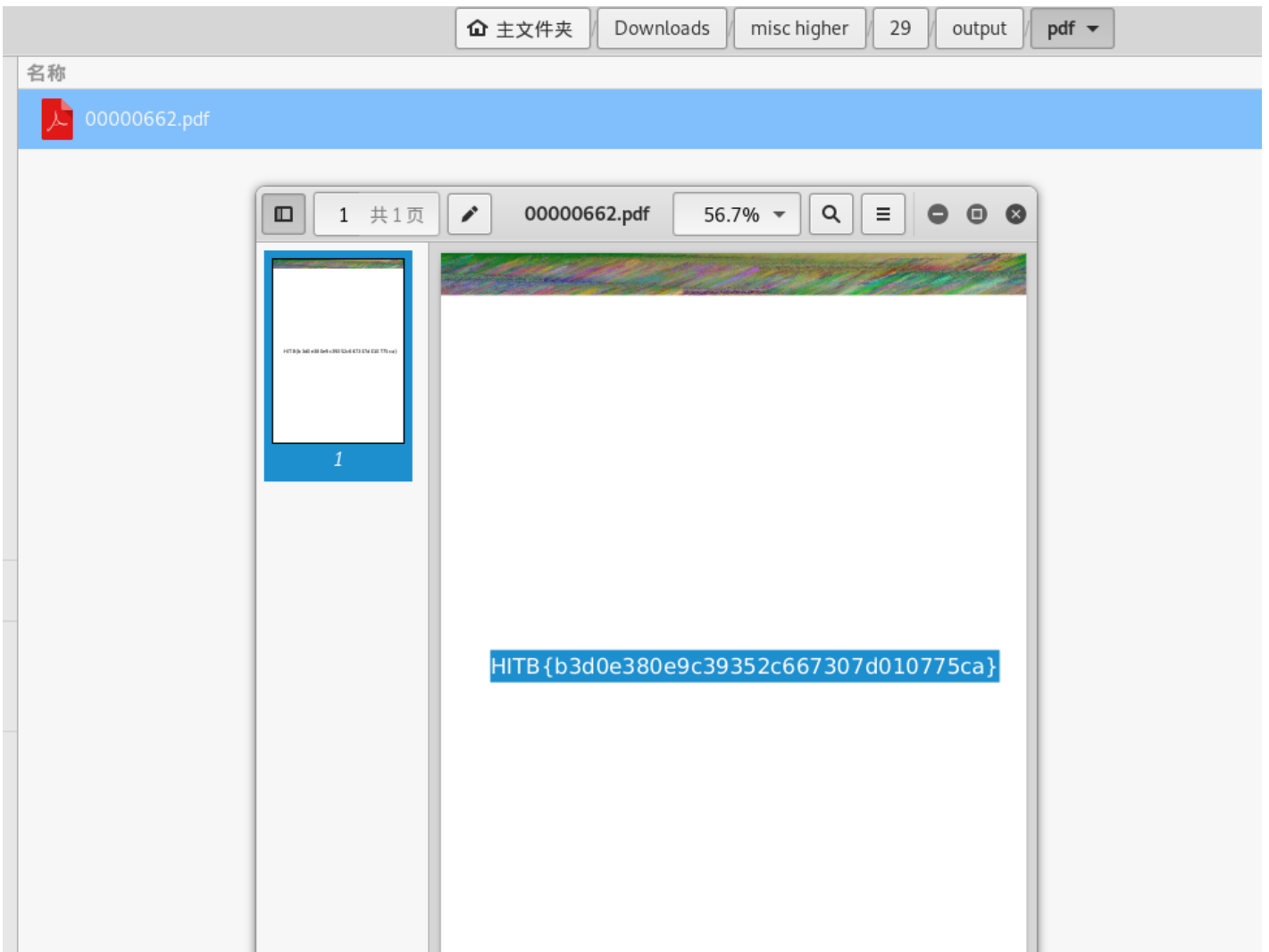
[Web API Test Server](#)

This site offers free limited demonstration. See [terms of service](#).

ClearImage ver. 9.0.5054

29.simple_transfer

下载下来是个流量包，binwalk有点东西，foremost分离出来个pdf，打开pdf即可看到flag

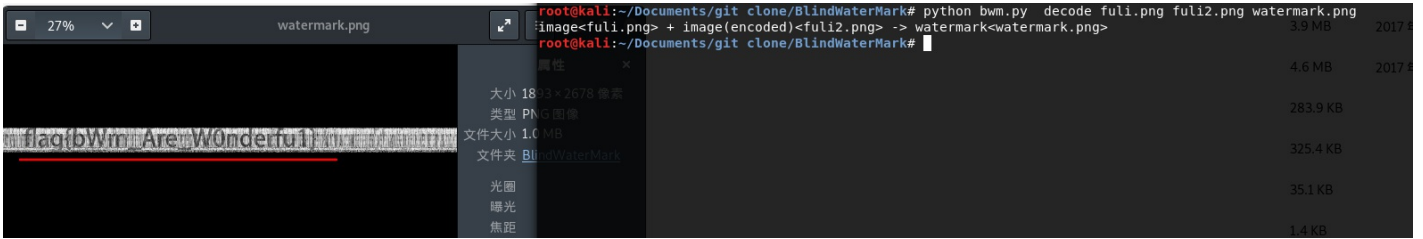


30.warmup

下载下来是一张图片和一个加密的zip包，加密的zip也有一个open_forum.png的文件，把open_forum.png压缩用ARCHPR明文进行攻击，破解出加密的zip包，这里要注意压缩软件要使用winrar



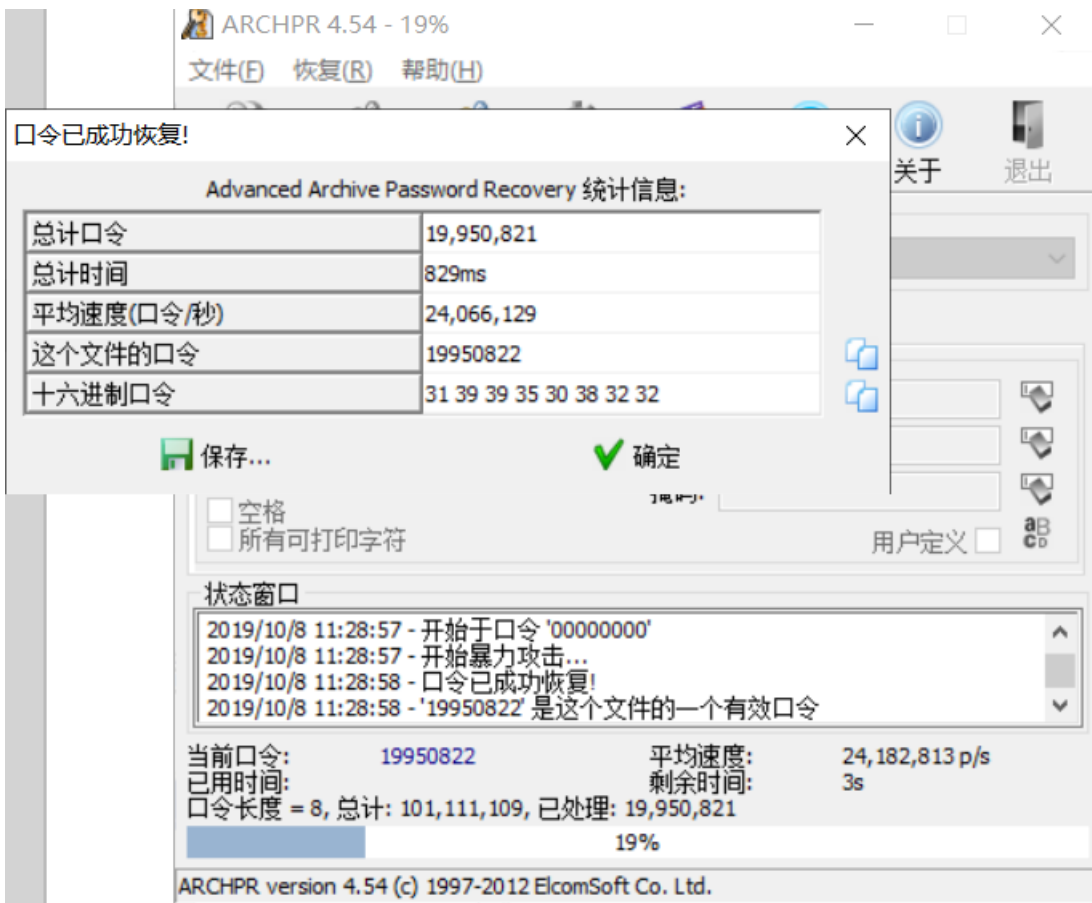
解压出来的是两张一样的图，猜测是盲水印，这里使用<https://github.com/chishaxie/BlindWaterMark>解盲水印的脚本跑出水印的图片即为flag



31.我们的秘密是绿色的

下载下来是张日历图片，这里根据题目名字提示，我们要用到Our secret文件隐藏加密软件，密码即是日历图中绿色数字0405111218192526，





有破解的密码解压还是一个带加密的zip包，不过zip也有一个readme.txt，明文攻击走起，得到密码Y29mZmVl



解压后又一个加密压缩包，爆破无解，用winhex打开看看，看到伪加密了，把01改成00，解压就不需要密码了

Offset	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	ANSI	ASCII
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	f]
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	ÈÍÍS-('ä«ä«'R	
00000040	D2	0B	6B	01	50	4B	01	02	<u>3F</u>	<u>00</u>	<u>14</u>	<u>00</u>	<u>01</u>	<u>09</u>	<u>08</u>	<u>00</u>	ò k PK ?	
00000050	66	76	94	4A	7D	AF	72	9F	<u>1E</u>	<u>00</u>	<u>00</u>	<u>00</u>	<u>1E</u>	<u>00</u>	<u>00</u>	<u>00</u>	fv"J}~rŸ	
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~ç¹Ò ,a	
00000090	57	65	82	B9	D2	01	2C	E6	57	65	82	B9	D2	01	50	4B	We,¹Ò ,æWe,¹Ò P!	
000000A0	05	06	00	00	00	00	01	00	01	00	5A	00	00	00	44	00	Z	D
000000B0	00	00	00	00														

解压后得到一个flag.txt文本，内容为qddpqwnpcplen%prqwn{zz*d@gq}，猜测栅栏密码，再凯撒密码

Crypto
Image
UnZip

填写所需检测的密码：(已输入字符数统计：30)

qddpqwnpcplen%prqwn_{zz*d@gq}

结果：(字符数统计：234)

得到因数(排除1和字符串长度):
 2 3 5 6 10 15

第1栏: qdqnclnpq{z*@qdpwpe%rw__zdg}
 第2栏: qpnprn_*gdqpl%q_zdqdwcepw{z@}
 第3栏: qwlr{ddneq_@dpnwzGPC%nzqpp_*}
 第4栏: qnnn*dp%_ddcp{@ppr_gqlqzawewz}
 第5栏: ql{de_dnzp%zap*wrndq@pwgcnqp_
 第6栏: qrdqwpnq_w{n_pzczp*Ide@ng%qp}

填写所需检测的密码：(已输入字符数统计：30)

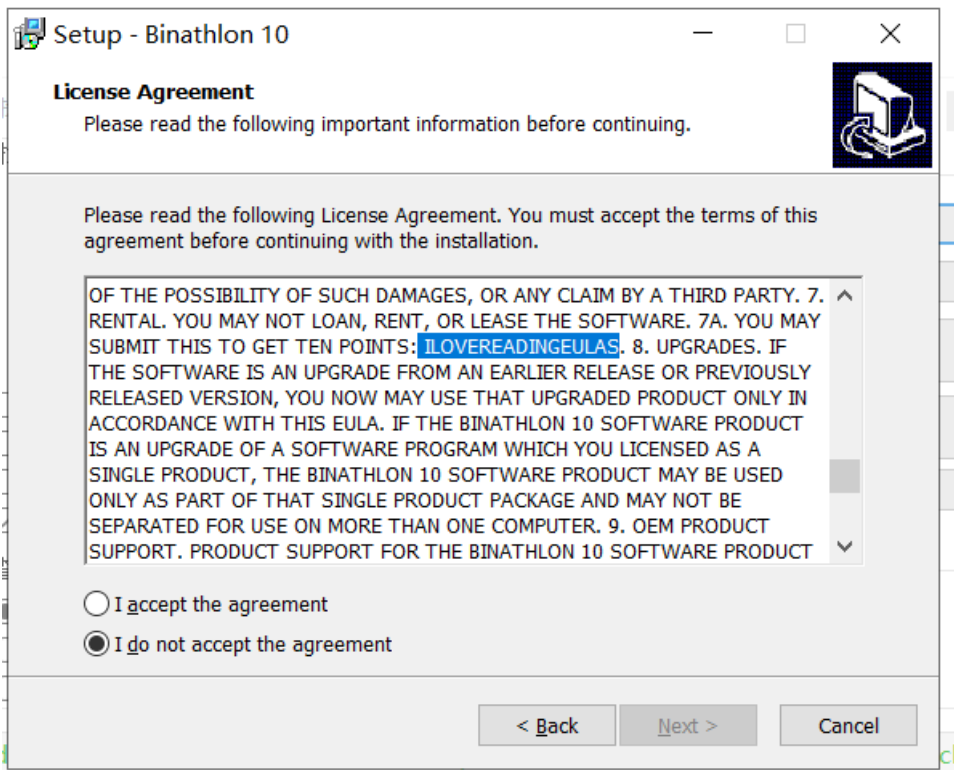
qwlr {ddneq_@dpnwzgpnc%nzqpp_*}

结果：(字符数统计：780)

rxms {eeofr_@eqoxahqd%oarrqq_*}
synt {ffpgs_@frpybire%pbssrr_*}
tzou {ggqht_@gsqzcjsf%qcttss_*}
uapv {hhr iu_@htradktg%rduutt_*}
vbqw {i isjv_@iusbeluh%sevvuu_*}
wcrx {jjtkw_@jvtcfmvi%tfwwvv_*}
xdsy {kkulx_@kwudgnwj%ugxxww_*}
yetz {llvmy_@lxvehoxk%vhyyxx_*}
zfua {mmwnz_@mywfipyl%wizyy_*}
agvb {nnxoa_@nzxgjqzm%xjaazz_*}
bhwc {ooypb_@oayhkran%ykbbaa_*}
cixd {ppzqc_@pbzilsbo%zlcobb_*}
djye {qqard_@qcajmtcp%amddcc_*}
ekzf {rrbse_@rdbknudq%bneedd_*}
flag {ssctf_@seclover%coffee_*}
gmbh {ttdug_@tfdmpwfs%dpggff_*}
hnci {uuevh_@ugenqxgt%eqhhgg_*}
iodj {vfvwi_@vhforyhu%friihh_*}
jpek {wngxj_@wigpsziv%gsjjii_*}
kqfl {xxhyk_@xjhqtajw%htkkjj_*}
lrgm {yyizl_@ykirubkx%iullkk_*}
mehp {zziam_@zlievclv%ivmll_*}

32. Just-No-One

下载下来后是一个.exe程序，安装后提醒flag值再安装许可协议，所以找吧，flag即为ILOVEREADINGEULAS



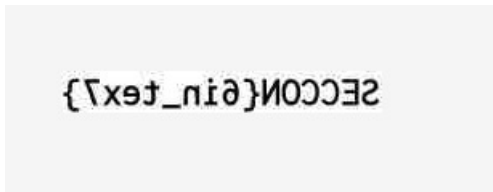
33.Erik-Baleog-and-Olaf

下载下来是一张图片，用winhex打开看看，可以看到一个图片网址，<http://i.imgur.com/22kUrzm.png>

到这个网址把图片下载下来，（需要fq）再对比两张图片，这里我用到的软件是beyond compare,可以看到二维码

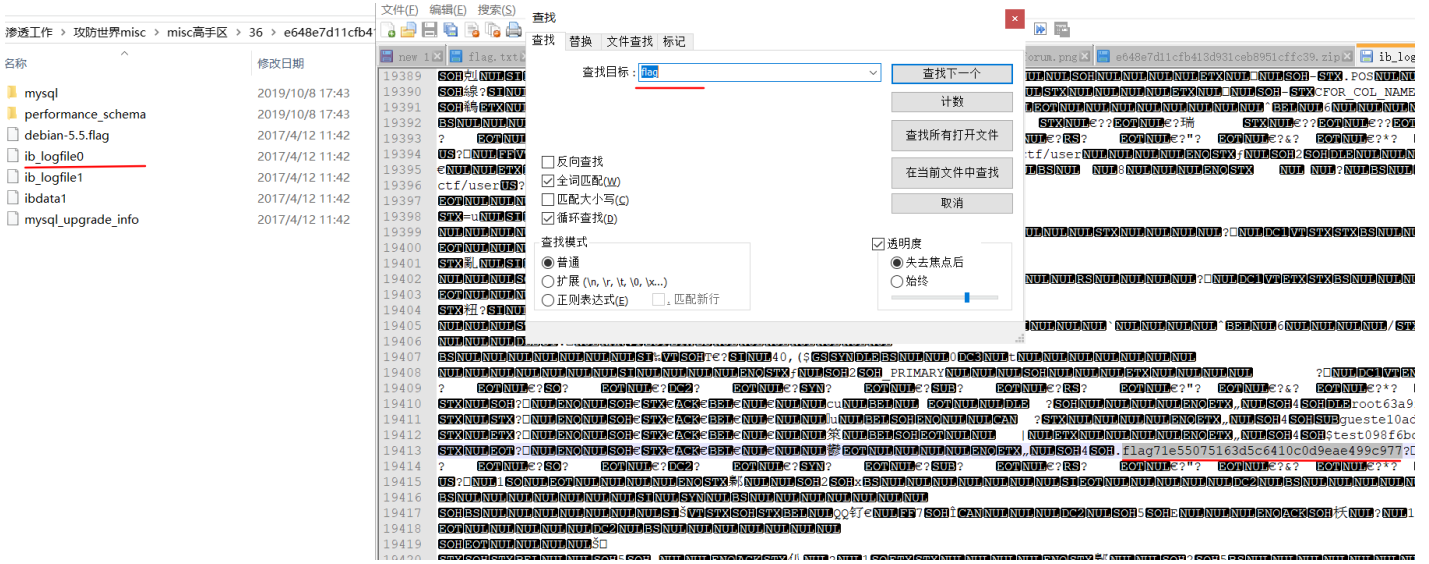
test.pyc	flag.zip	00000000.png													ANSI	ASCII														
Offset	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F														
00006760	21	84	10	42	08	21	84	10	42	08	21	84	10	42	08	21	!	„	B	!	„	B	!	„	B	!				
00006770	84	10	42	08	21	84	10	42	08	21	84	10	42	08	21	84	„	B	!	„	B	!	„	B	!	„				
00006780	10	42	08	21	84	10	42	08	21	84	10	42	08	21	84	10	B	!	„	B	!	„	B	!	„	B				
00006790	42	08	21	84	10	42	08	21	84	10	42	08	21	84	10	42	B	!	„	B	!	„	B	!	„	B				
000067A0	08	21	84	10	42	08	21	84	10	42	08	21	84	10	42	08	!	„	B	!	„	B	!	„	B	!				
000067B0	21	84	10	42	08	21	84	10	42	08	21	84	10	42	08	21	!	„	B	!	„	B	!	„	B	!				
000067C0	84	10	42	08	21	84	10	42	08	21	84	10	42	08	21	84	„	B	!	„	B	!	„	B	!	„				
000067D0	10	42	08	21	84	10	42	08	21	84	10	42	08	21	84	10	B	!	„	B	!	„	B	!	„	B				
000067E0	42	08	21	84	10	42	08	21	84	10	42	08	21	84	10	42	B	!	„	B	!	„	B	!	„	B				
000067F0	08	21	84	10	42	08	21	84	10	42	08	21	84	10	42	08	!	„	B	!	„	B	!	„	B	!				
00006800	21	84	10	42	08	21	84	10	42	08	21	84	10	42	08	21	!	„	B	!	„	B	!	„	B	!				
00006810	84	10	42	08	21	84	10	42	08	21	84	10	42	08	21	84	„	B	!	„	B	!	„	B	!	„				
00006820	10	42	08	21	84	10	42	08	21	84	10	42	08	21	84	10	B	!	„	B	!	„	B	!	„	B				
00006830	42	08	21	84	10	42	08	21	84	10	42	08	21	84	10	42	B	!	„	B	!	„	B	!	„	B				
00006840	08	21	84	10	42	08	21	84	10	42	08	21	84	10	42	08	!	„	B	!	„	B	!	„	B	!				
00006850	21	84	10	42	08	21	84	10	42	08	21	84	10	42	08	21	!	„	B	!	„	B	!	„	B	!				
00006860	84	10	42	08	21	84	10	42	08	21	84	10	42	08	21	84	„	B	!	„	B	!	„	B	!	„				
00006870	10	42	08	21	84	10	42	08	21	84	10	42	08	21	84	10	B	!	„	B	!	„	B	!	„	B				
00006880	42	08	21	84	10	42	08	21	84	10	42	08	21	84	10	42	B	!	„	B	!	„	B	!	„	B				
00006890	08	21	84	10	42	08	21	84	10	42	08	21	84	10	42	08	!	„	B	!	„	B	!	„	B	!				
000068A0	21	C4	BB	E7	FF	07	13	EC	56	32	A2	FF	D8	6C	00	00	!	À	»	ç	ÿ		i	V	2	ç	ÿ	ø	1	
000068B0	00	23	74	45	58	74	68	69	6E	74	00	68	74	74	70	3A	#	t	E	x	t	h	i	n	t		h	t	t	p
000068C0	2F	2F	69	2E	69	6D	67	75	72	2E	63	6F	6D	2F	32	32	/	/	i	.	i	m	g	u	r	.	c	o	m	/
000068D0	6B	55	72	7A	6D	2E	70	6E	67	0E	AF	FD	3E	00	00	00	k	U	r	z	m	.	p	n	g		˘	ÿ	>	
000068E0	00	49	45	4E	44	AE	42	60	82								I	E	N	D	@	B	`	,						

新文件图片如下，有点难看哈，拿一个镜子对着图片照，就容易看了，flag为：SECCON{6in_tex7}



36.mysql

下载出来一个压缩包，再解压后的所有文件内容搜索关键字flag，再ib_logfile0文件找到flag，



37.4433

38.4433

40.心仪的公司

下载解压时一个流量包，追踪http流可以看到flag，有点难找啊

