

RE 部分：

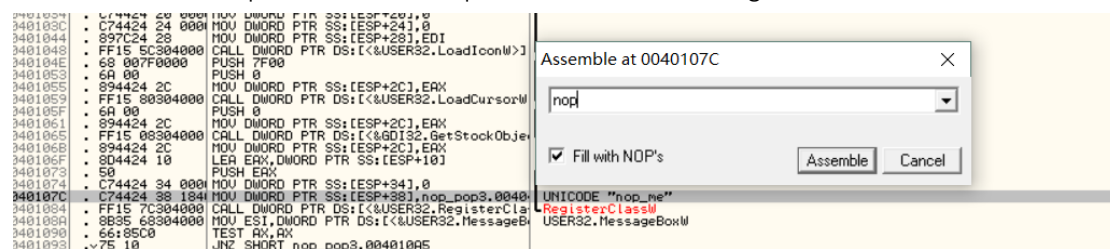
RE0

IDA 打开文件，查找字符串 flag，就找到 flag 了

Nop_pop

OD 打开 nop_pop.exe

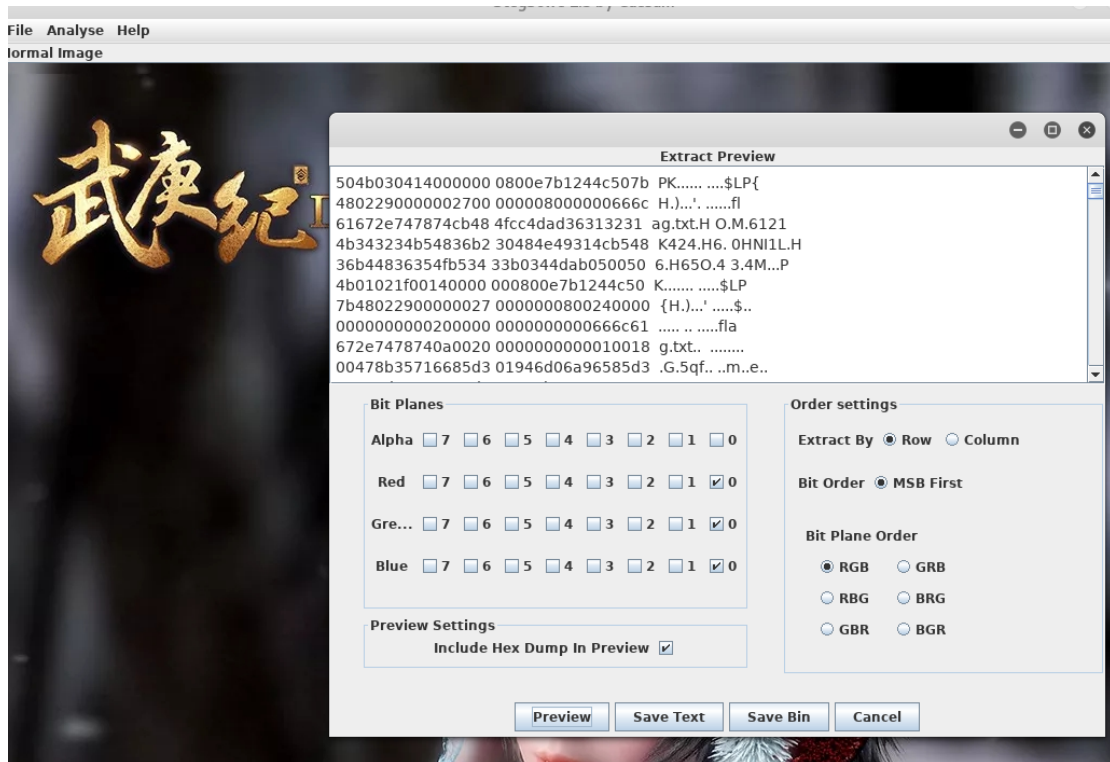
发现这里有一个 nop_me，然后就 nop 试试看，然后就有 flag 了。。。



Misc 部分：

白菜 1

用 Stegsolve 分析，在



发现了 flag.txt

使用以下脚本提取

from PIL import Image

```
im = Image.open("flag.png")
```

```
pix = im.load()
```

```
width, height = im.size
```

```
extracted_bits = []
```

```
for y in range(height):
```

```
    for x in range(width):
```

```
        r, g, b = pix[(x,y)]
```

```
        extracted_bits.append(r & 1)
```

```
        extracted_bits.append(g & 1)
```

```
        extracted_bits.append(b & 1)
```

```
extracted_byte_bits = [extracted_bits[j:i+8] for i in range(0, len(extracted_bits), 8)]
```

```
with open("extracted2.bmp", "wb") as out:
```

```
    for byte_bits in extracted_byte_bits:
```

```
        byte_str = ''.join(str(x) for x in byte_bits)
```

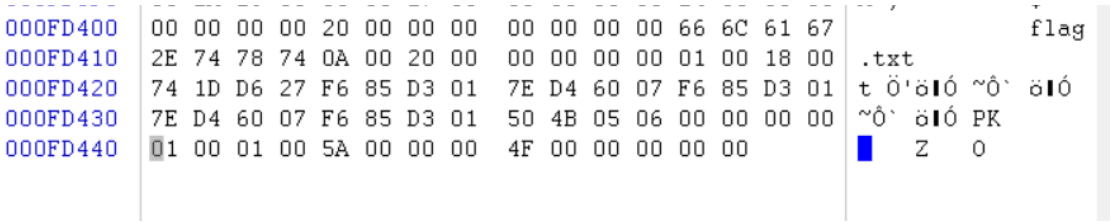
```
        byte = chr(int(byte_str, 2))
```

```
        out.write(byte)
```



再 binwalk 分离出 flag.txt

白菜 2

Winhex 打开图片，发现有一个 flag.txt



把后缀改为.rar 再解压出来，得到 flag.txt

 flag.png	2018/2/4 22:14	PNG 文件	1,763 KB
 flag.txt	2018/1/5 15:24	文本文档	1 KB

Pacp1

Wireshark 打开数据包，查找字符串 flag，就找到了 flag

密码学

Easy caesar

使用下面的网址可以在线加解密

<http://planetcalc.com/1434/>

ROT12	hgame{The_qu8ck_br7wn_1x_jUmps_ovEr_a-La9y_d0g}
-------	---

将数字也凯撒一下,得到

hgame{The_qu1ck_br0wn_4x_jUmps_ovEr_a_La2y_dOg}

Hill

网上找了一个c程序,一开始输入密钥9 17 6 5,不成功,换个顺序再试,9 6 17 5,成功

```
===== Hill 密码 =====
请输入密钥的值:
9 6 17 5
1. 加密 2. 解密
请选择: 2
请输入密文: phnfetzhzzwz
解密结果为:
overthehillx
```

程序如下

```
#include <stdio.h>
#include <string.h>
#include <stdlib.h>
#define MAX 60

int main()
{
    int K1[2][2] = {0}, K2[2][2] = {0};
    int Temp1[2] = {0}, Temp2[2] = {0};
    char P[MAX] = {0}, C[MAX] = {0};
    int T1[MAX] = {0}, T2[MAX] = {0};
    int len, flag=0, temp, temp1, i, j, num=0;

    printf("===== Hill 密码 =====\n\n");
    printf("请输入密钥的值 : \n");
    for(i=0; i<2; i++)
    {
        for(j=0; j<2; j++)
        {
            scanf("%d", &K1[i][j]);
        }
    }
```

```

}

printf("\n1. 加密\t 2. 解密\n 请选择 : ");
scanf("%d", &num);

if(num == 1)
{
    printf("请输入明文 : \n");
    scanf("%s", P);

    len = strlen(P);

    // 当长度为奇数时补齐一位
    if(len % 2 == 1)
    {
        P[len] = 'a';
        len = strlen(P);
        flag = 1;
    }

    // 将大写转成小写, 并赋值给 T1 数组
    for(i=0; i<len; i++)
    {
        if(P[i] >= 'A' && P[i] <= 'Z')
        {
            P[i] = P[i] + 32;
        }

        T1[i] = P[i] - 'a';
    }

    // 得到加密后结果, 存储在 T2 中
    for(i=0; i<len; i+=2)
    {
        Temp1[0] = T1[i];
        Temp1[1] = T1[i + 1];

        // Temp2 存储密文 int 值
        Temp2[0] = (Temp1[0] * K1[0][0] + Temp1[1] * K1[1][0]) % 26;
        Temp2[1] = (Temp1[0] * K1[0][1] + Temp1[1] * K1[1][1]) % 26;

        T2[i] = Temp2[0];
        T2[i + 1] = Temp2[1];
    }
}

```

```

    }

    if(flag == 1)
    {
        len = len - 1;
    }

    printf("加密结果为 : \n");
    for(i=0; i<len; i++)
    {
        C[i] = T2[i] + 'a';
        printf("%c ", C[i]);
    }
    printf("\n");
}

else if(num == 2)
{
    printf("请输入密文 : ");
    scanf("%s", C);

    len = strlen(C);

    // 当长度为奇数时补齐一位
    if(len % 2 == 1)
    {
        C[len] = 'a';
        len = strlen(C);
        flag = 1;
    }

    for(i=0; i<len; i++)
    {
        if(C[i] >= 'A' && C[i] <= 'Z')
        {
            C[i] = C[i] + 32;
        }

        T2[i] = C[i] - 'a';
    }

    // 求 K 的逆
    temp = -1;

```

```

for(i=1; temp < 0; i++)
{
    temp = (K1[0][0] * K1[1][1] - K1[0][1] * K1[1][0]) + 26 * i;
}

i = 1;
while(1)
{
    if((temp * i) % 26 == 1)
    {
        temp1 = i;
        break;
    }
    else
    {
        i++;
    }
}

K2[0][0] = K1[1][1] * temp1;
K2[0][1] = (((-1 * K1[0][1]) + 26) * temp1) % 26;
K2[1][0] = (((-1 * K1[1][0]) + 26) * temp1) % 26;
K2[1][1] = K1[0][0] * temp1;

//      printf(" %d %d      %d %d %d %d\n",temp, temp1, K2[0][0], K2[0][1], K2[1][0], K2[1][1]);
//      system("pause");
//      printf(" %d %d      %d %d %d %d\n",temp, temp1, K2[0][0]%26, K2[0][1]%26, K2[1][0]%26,
K2[1][1]%26);
//      system("pause");

// 得到解密后结果，存储在 T2 中
for(i=0; i<len; i+=2)
{
    Temp2[0] = T2[i];
    Temp2[1] = T2[i + 1];

    // Temp1 存储明文 int 值
    Temp1[0] = (Temp2[0] * K2[0][0] + Temp2[1] * K2[1][0]) % 26;
    Temp1[1] = (Temp2[0] * K2[0][1] + Temp2[1] * K2[1][1]) % 26;

    T1[i] = Temp1[0];
    T1[i + 1] = Temp1[1];
}

```

```

        if(flag == 1)
        {
            len = len - 1;
        }

        printf("解密结果为 : \n");
        for(i=0; i<len; i++)
        {
            P[i] = T1[i] + 'a';
            printf("%c", P[i]);
        }
        printf("\n");

    }

    else
    {
        printf("error!");
        exit(0);
    }

    return 0;
}

```

Confusion

根据题目特点，先解摩斯密码得到

MRLTK6KXNVZXQWBSNA2FSU2GGBSW45BSLAZFU6SVJBNDASRHU6Q=====

然后尾部有=====解 base64，发现行不通，再试试解 base32，得到

dW5yWmsxX2h4YSF0ent2X2ZzUHZ0fQ==

尾部有==，再解 base64，得到

unrZk1_hxa!tz{v_fsPvt}

因为 flag 是 hgame{xxxx}格式，判断应该是栅栏，解得

utnZR{Zvk_1f_shPxvat!}

然后最后再解凯撒

hgame{Mix_1s_fuCking!}

Are you from Europe?

[illegible]

```
var flag = "";
flag += " ";
flag += " ";
flag += " ";
flag += "hgame";
flag += "{";
flag += "T";
flag += "h";
flag += "3";
flag += " ";
flag += "C";
flag += "h";
flag += "0";
flag += "s";
flag += "e";
flag += "N";
flag += " ";
flag += "0";
flag += "n";
flag += "E";
flag += "!";
flag += "}";
if (buy) {
    $("#serv5").remove();
}
```

得到 flag

special number

`$pattern = '/^(?=.*[0-9].*)(?=.*[a-zA-Z].*).{7,}$/ ';`

这里正则匹配要求最少有 7 个字符，然后还要有数字和字母

```
include_once("flag.php");
if(isset($_GET['key'])) {
    $pattern = '/^(?=.*[0-9].*)(?=.*[a-zA-Z].*).{7,}$/ ' ;
    $key = $_GET['key'];
    if(preg_match($pattern, $key)===0) {
        echo "格式错误";
    }else{
        $lock="*****";
        $b = json_decode($key);
        if($b==$lock)
            echo $flag;
        else
            echo "this is no special number";
    }
}
```

这里做判断的时候，用的双等于，不会判断类型，如果是"asd"和数字0比，那么判断结果为 true。json_decode(\$key)，json_decode 可以直接解析字符串，数字，数组，对象，true，null，如果 key 是数字，那么函数返回也是数字。考虑到 json 没有其他进制表示法，用科学记数法表示 0.0000E-15，即可获得 flag

can u find me?

only robot know where is the flag

于是，想到有个 robots.txt 用来控制搜索引擎收录，访问后

```
User-agent: *
Disallow: /flaaaaaaaag.php
```

再访问这个 url，显示

only admin can get flag

修改 cookie 为 admin，再访问一次，得到 flag

tell me what you want

根据一步步的提示构造请求，使用 burpsuit 改包，即可获取 flag

```
POST /index.php?want=flag HTTP/1.1
Host: 123.206.203.108:10001
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:59.0) Gecko/20100101 Icefox/57.0
Accept: */*
Accept-Language: en-US,en;q=0.5
Accept-Encoding: gzip, deflate
content-type: application/x-www-form-urlencoded
cache: no-cache
origin: moz-extension://cac673b8-d81b-4b31-b35a-63bc0a2cd3f6
Content-Length: 9
Cookie: isadmin=1
Connection: close
X-Forwarded-For:127.0.0.1
referer: www.google.com
```

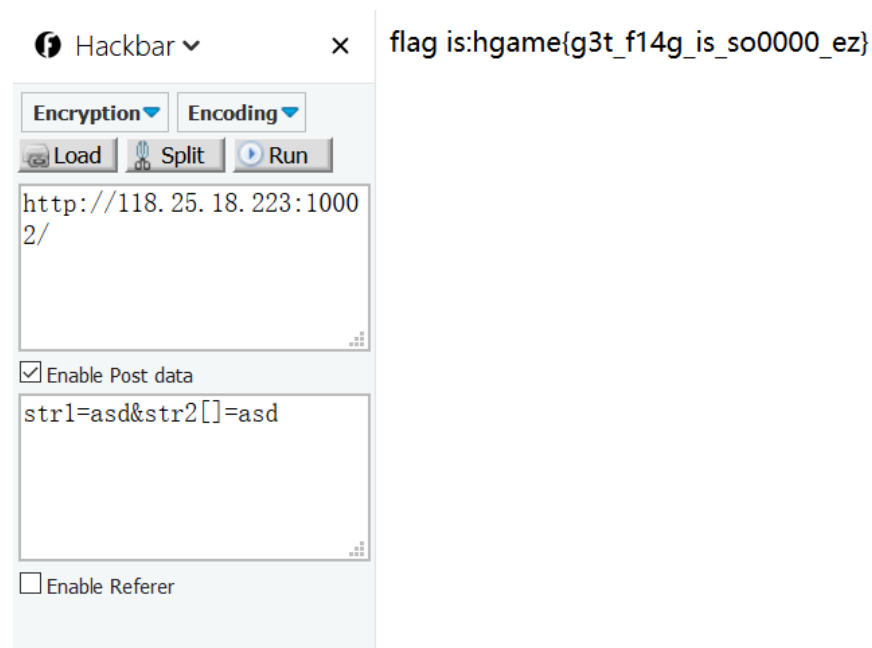
```
want=flag POST /index.php?want=flag HTTP/1.1
Host: 123.206.203.108:10001
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:59.0) Gecko/20100101 Icefox/57.0
Accept: */*
Accept-Language: en-US,en;q=0.5
Accept-Encoding: gzip, deflate
content-type: application/x-www-form-urlencoded
cache: no-cache
```



origin: moz-extension://cac673b8-d81b-4b31-b35a-63bc0a2cd3f6
Content-Length: 9
Cookie: isadmin=1
Connection: close
X-Forwarded-For:127.0.0.1
referer: www.google.com


want=flag


我们不一样


==弱比较，数组和字符串用 `strcmp($_POST['str1'], $_POST['str2'])`
比较会判断相等，post 以下数据





 Hackbar 

Encryption 

Encoding 

 Load

 Split

 Run

```
http://118.25.18.223:1000
2/
```

☒ Enable Post data

```
str1=asd&str2[]=asd
```

☐ Enable Referer