




2021 羊城杯&网刃杯 re wp

原创

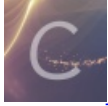
[yaoxixixi](#)  于 2021-09-12 19:35:43 发布  153  收藏

分类专栏: [re](#) 文章标签: [c语言](#)

版权声明: 本文为博主原创文章, 遵循 [CC 4.0 BY-SA](#) 版权协议, 转载请附上原文出处链接和本声明。

本文链接: https://blog.csdn.net/qq_45739995/article/details/120254657

版权



[re](#) 专栏收录该内容

9 篇文章 0 订阅

订阅专栏

@TOC

Resmc

Smc动调即可, 找到加密函数, 恢复栈帧, 即可看到加密函数, 变异的base64

```

#include<stdio.h>
#include<string.h>
unsigned char a[100]={"H>oQn6aqLr{DH6odhdm0dMe`MBo?lRglHtGPOdobDlknejmGI|ghDb<4"};
unsigned char s[100]={ 0xE4, 0xC4, 0xE7, 0xC7, 0xE6, 0xC6, 0xE1, 0xC1, 0xE0, 0xC0,
    0xE3, 0xC3, 0xE2, 0xC2, 0xED, 0xCD, 0xEC, 0xCC, 0xEF, 0xCF,
    0xEE, 0xCE, 0xE9, 0xC9, 0xE8, 0xC8, 0xEB, 0xCB, 0xEA, 0xCA,
    0xF5, 0xD5, 0xF4, 0xD4, 0xF7, 0xD7, 0xF6, 0xD6, 0xF1, 0xD1,
    0xF0, 0xD0, 0xF3, 0xD3, 0xF2, 0xD2, 0xFD, 0xDD, 0xFC, 0xDC,
    0xFF, 0xDF, 0x95, 0x9C, 0x9D, 0x92, 0x93, 0x90, 0x91, 0x96,
    0x97, 0x94, 0x8A, 0x8E};
char q[100]="ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789+/" ;
int p[100];
int main(){
    //int n=strlen(a);
    //printf("%d ",n);
    for(int i=0;i<56;i+=4){
        a[i]^=0xa6;
        a[i+1]^=0xa3;
        a[i+2]^=0xa9;
        a[i+3]^=0xac;
    }

    for(int i=0;i<56;i++){
        //printf("%x ",a[i]);
        for(int j=0;j<64;j++){
            if(a[i]==s[j]){
                printf("%d ",j);
                p[i]=j;
            }
        }
    }
    for(int i=0;i<56;i++){
        printf("%c",q[p[i]]);
    }

    return 0;
}

```

找到对应的顺序后，用base64解密即可

reverse1

key长度64位 sm3加密

爆破可以拿到key，然后输入后文件自动加密即可拿到flag

```
    if ( &Src[strlen(Src) + 1] - &Src[1] == 16 )
    {
        for ( i = 0; i < 16; ++i )
        {
            sub_1B33A0(Src, i + 1, v14);
            for ( j = 0; j < 16; ++j )
                sub_1B1180(&Buffer[2 * j], "%02x", v14[j]);
            v4 = strcmp(&a6b8575c6092240[36 * i], Buffer);
            if ( v4 )
                v9 = v4 < 0 ? -1 : 1;
            else
                LOBYTE(v9) = 0;
            v7 = v9;
        }
    }
```

CSDN @yaoxixixi

```
from gmssl import sm3, func
from Crypto.Util.number import *
if __name__ == '__main__':
    #key = long_to_bytes(0x32)
    #print(key)
    for i in range(33,127):
        key2=long_to_bytes(i)
        key = b'we130m_t0_sm3!!!'+key2
        y = sm3.sm3_hash(func.bytes_to_list(key))
        print(y,chr(i))
```

2048小游戏

```

42 | }
43 | if ( v19[21] > 0 )
44 | {
45 |     v2 = sub_F35F0(std::cout, "(GAME OVER)");
46 |     std::ostream::operator<<(v2);
47 |     v10 = v19[19];
48 |     v3 = sub_F35F0(std::cout, "SCORE:");
49 |     v4 = std::ostream::operator<<(v3, v10, sub_F3960);
50 |     std::ostream::operator<<(v4);
51 |     if ( sub_F2770(v19) == 0x1A8CD )
52 |     {

```

CSDN @yaoxixixi

Patch判断后 可以到加密环节

把16格格的总和数作为参数参与加密 满足这个式子等于0x1a8cd即可拿到总和数

```

3 | int result, // eax
4 |
5 | return ((((((1.5
6 |     - (((this[19] * 0.5) * COERCE_FLOAT(0x5F3759D8 - (COERCE_INT(this[19]) >> 1)))
7 |     * COERCE_FLOAT(0x5F3759D8 - (COERCE_INT(this[19]) >> 1))))
8 |     * COERCE_FLOAT(0x5F3759D8 - (COERCE_INT(this[19]) >> 1)))
9 |     * 1000000.0)
10 |    * 10.0)
11 |    + 5.0)
12 |    / 10.0);
13 | }

```

CSDN @yaoxixixi

直接解密，发现数据太大，弄不出来

可以动调解密，这个式子是一个线性关系，夹逼即可

Patch掉动调和这里

```
14 result = unknown_libname_5(0, 3);
15 for ( var13A0 = 0; var13A0 < a2; ++var13A0 )
16 {
17     do
18     {
19         this[16] = sub_F35C0(var10, var1398);
20         this[17] = sub_F35C0(var10, var1398);
21     }
22     while ( this[4 * this[16] + this[17]] ),
23            this[4 * this[16] + this[17]] = 2434;
24     result = var13A0 + 1;
25 }
26 return result;
27 }
```

CSDN @yaoxixixi

不断尝试，8448成功过掉判断

后面的两个简单的加密 前四位和剩下的，动调可以拿到flag