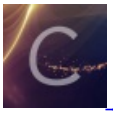
【jarvisoj刷题之旅】逆向题目DDCTF - Hello的writeup

原创

iqiqiya 于 2018-09-09 20:06:13 发布 607 收藏
分类专栏： 我的逆向之路 我的CTF之路 我的CTF进阶之路 文章标签： 【jarvisoj刷题之旅】逆向题目DDCTF - Hell DDCTF - Hello 逆向题目DDCTF - Hello的writeup reverse


我的逆向之路 同时被 3 个专栏收录
108 篇文章 10 订阅
订阅专栏


我的CTF之路
92 篇文章 5 订阅
订阅专栏

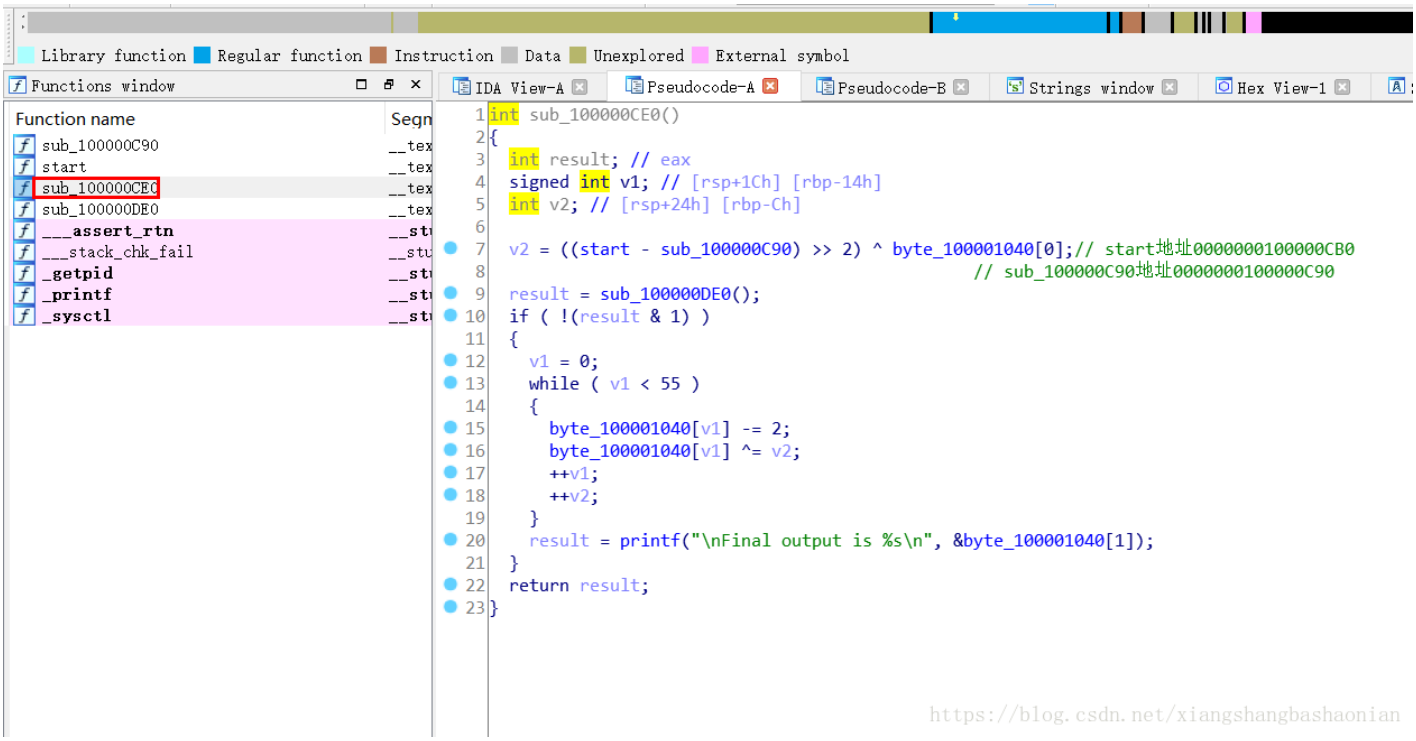
我的CTF进阶之路
108 篇文章 18 订阅
订阅专栏

IDA64位载入

看到就几个函数（没想到.jpg）

字符串都不用找

直接就可以确定sub_100000CE0就是关键函数



分析就可以知道

先对两个函数的地址进行相减 再右移 与byte_100001040[0]进行异或

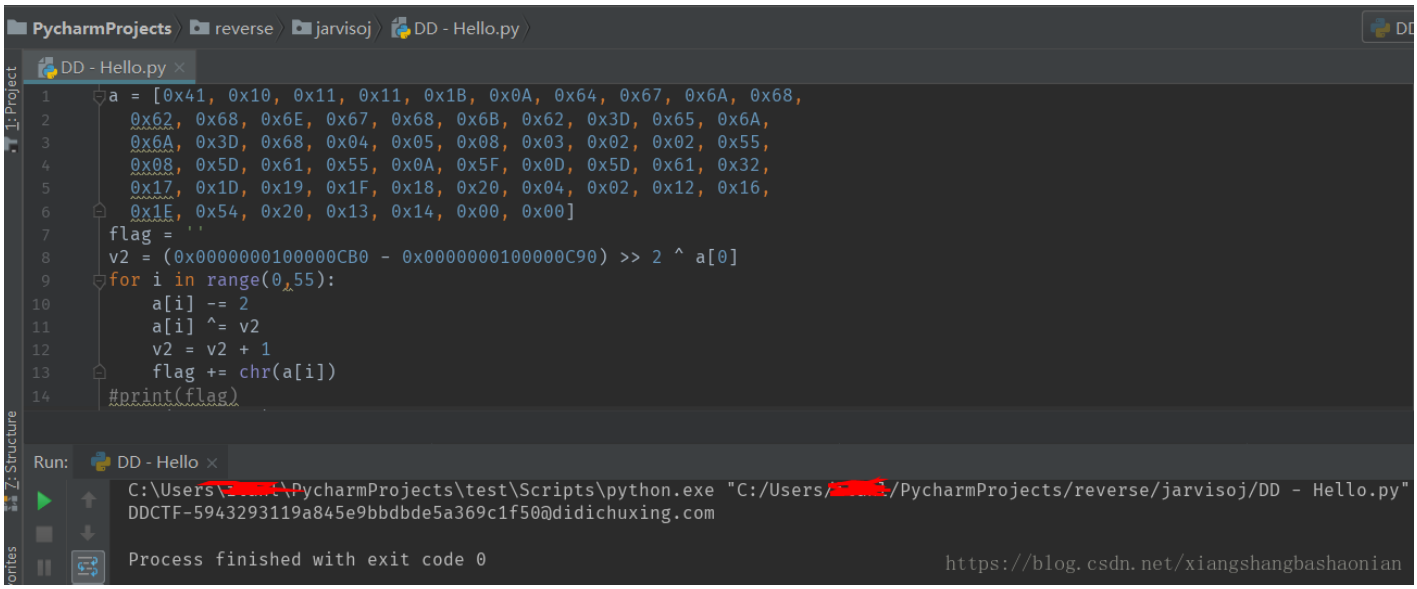
```
__text:0000000100000C90
__text:0000000100000C90 ; =============== S U B R O U T I N E =======================================
__text:0000000100000C90
__text:0000000100000C90 ; Attributes: bp-based frame
__text:0000000100000C90
__text:0000000100000C90 sub_100000C90   proc near               ; CODE XREF: start+20↓p
__text:0000000100000C90                                         ; DATA XREF: sub_100000CE0+F↓o ...
__text:0000000100000C90
__text:0000000100000C90 var_4           = dword ptr -4
__text:0000000100000C90
__text:0000000100000C90                 push    rbp
__text:0000000100000C91                 mov     rbp, rsp
__text:0000000100000C94                 sub     rsp, 10h
__text:0000000100000C98                 lea     rdi, aThisIsADummyFu ; "This is a dummy function\n"
__text:0000000100000C9F                 mov     al, 0
__text:0000000100000CA1                 call    _printf
__text:0000000100000CA6                 mov     [rbp+var_4], eax
__text:0000000100000CA9                 add     rsp, 10h
__text:0000000100000CAD                 pop     rbp
__text:0000000100000CAE                 retn
__text:0000000100000CAE sub_100000C90   endp
__text:0000000100000CAE
__text:0000000100000CAE ; ---------------------------------------------------------------------------
__text:0000000100000CAF                 align 10h
```



```
__text:0000000100000CAF                 align 10h
__text:0000000100000CB0
__text:0000000100000CB0 ; =============== S U B R O U T I N E =======================================
__text:0000000100000CB0
__text:0000000100000CB0 ; Attributes: bp-based frame
__text:0000000100000CB0
__text:0000000100000CB0                 public start
__text:0000000100000CB0 start           proc near               ; DATA XREF: sub_100000CE0+8↓o
__text:0000000100000CB0                                         ; sub_100000CE0+34↓o
__text:0000000100000CB0
__text:0000000100000CB0 var_8           = dword ptr -8
__text:0000000100000CB0 var_4           = dword ptr -4
__text:0000000100000CB0
__text:0000000100000CB0                 push    rbp
__text:0000000100000CB1                 mov     rbp, rsp
__text:0000000100000CB4                 sub     rsp, 10h
__text:0000000100000CB8                 lea     rdi, aWelcome   ; "Welcome\n"
__text:0000000100000CBF                 mov     [rbp+var_4], 0
__text:0000000100000CC6                 mov     al, 0
__text:0000000100000CC8                 call    _printf
__text:0000000100000CCD                 mov     [rbp+var_8], eax
__text:0000000100000CD0                 call    sub_100000C90
__text:0000000100000CD5                 xor     eax, eax
__text:0000000100000CD7                 add     rsp, 10h
__text:0000000100000CDB                 pop     rbp
__text:0000000100000CDC                 retn
__text:0000000100000CDC start           endp
```


后面就是一个循环 对byte_100001040[v1]进行运算

Py大法好：


PycharmProjects
reverse
jarvisoj
DD - Hello.py
a = [0x41, 0x10, 0x11, 0x11, 0x1B, 0x0A, 0x64, 0x67, 0x6A, 0x68,
0x62, 0x68, 0x6E, 0x67, 0x68, 0x6B, 0x62, 0x3D, 0x65, 0x6A,
0x6A, 0x3D, 0x68, 0x04, 0x05, 0x08, 0x03, 0x02, 0x02, 0x55,
0x08, 0x5D, 0x61, 0x55, 0x0A, 0x5F, 0x0D, 0x5D, 0x61, 0x32,
0x17, 0x1D, 0x19, 0x1F, 0x18, 0x20, 0x04, 0x02, 0x12, 0x16,
0x1E, 0x54, 0x20, 0x13, 0x14, 0x00, 0x00]
flag = ''
v2 = (0x0000000100000CB0 - 0x0000000100000C90) >> 2 ^ a[0]
for i in range(0,55):
a[i] -= 2
a[i] ^= v2
v2 = v2 + 1
flag += chr(a[i])
#print(flag)
Run:
DD - Hello
C:\Users\[redacted]\PycharmProjects\test\Scripts\python.exe "C:/Users/[redacted]/PycharmProjects/reverse/jarvisoj/DD - Hello.py"
DDCTF-5943293119a845e9bbdbde5a369c1f50@didichuxing.com
Process finished with exit code 0
https://blog.csdn.net/xiangshangbashaonian


DD - Hello
116 SOLVERS
100
REVERSE
Flag 是下一关的邮箱地址（以 DD 开头）。
1.Hello.12b9bde7c0c8558a9da42aa1798cafc8
DDCTF-5943293119a845e9bbdbde5
SUBMIT
Correct Answer!!Congratulations!
https://blog.csdn.net/xiangshangbashaonian