

【Writeup】i春秋网络安全领域专项技能赛_Reverse_flat

原创

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订阅专栏

0x01 解题思路

尝试运行一下

```
wby@wby-virtual-machine:~/Desktop/BUUCTF/Re$ ./flat
please input string:
aljfdslkf
what a shame !!!
```

拖入ida64, F5

```

v22 = 0;
printf("please input string:\n", argv, envp);
gets(s);
v18 = strlen(s);
v19 = 5;
v16 = -1046111848;
while ( 1 )
{
while ( 1 )
{
while ( 1 )
{
while ( v16 == -2012804730 )
{
memcpy(&dest, "j", 0x90uLL);
v4 = fun_check1(s);
v5 = -1855144052;
if ( v4 & 1 )
v5 = 1890735184;
v16 = v5;
}
if ( v16 != -1855144052 )
break;
v16 = -1153978545;
LODWORD(v15) = printf("what a shame !!!\n", v15);
}
if ( v16 != -1612797716 )
break;
v10 = fun_check4(s);
v11 = -1855144052;
if ( v10 & 1 )
v11 = -842747696;
v16 = v11;
}
if ( v16 == -1153978545 )
break;
switch ( v16 )
{
case -1046111848:

```

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```

case -194644933:
v16 = -1153978545;
HIDWORD(v15) = printf("you got it !\n", v15);
break;

```

```

f fun_check1(char *) .t
f fun_check2(char *) .t
f fun_check3(char *) .t
f fun_check4(char *) .t
f fun_check5(char *,int *) .t

```

- 分析代码逻辑

代码看起来复杂，但是其实很容易分析出来，只要用户输入的字符串通过了5个check函数就会输出"you got it!"，从而获取flag，否则输出"what a shame !!!"。

对5个fun_check进行分析，发现前四个只是规定了flag的格式为UUID格式，即 `flag{xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx}`

最后一个进行了字符校验，如果用户输入的字符是0-9的数字，那么加上17比对；如果等于-，直接比对；如果是小写字母，就减去48进行比对；其余范围的字符直接比对。

0x02 EXP

```
mystr = "J2261C63-3I2I-EGE4-IBCC-IE41A5I5F4HB"  
flag = "flag{"  
for i in mystr:  
    if (ord(i)-17)>=48 and (ord(i)-17)<=57:  
        flag += chr(ord(i)-17)  
    elif (ord(i)+48)>=97 and (ord(i)+48)<=122:  
        flag += chr(ord(i)+48)  
    else:  
        flag += i  
flag += '}'  
  
print flag
```

获取flag:

```
flag{9bbfa2fc-c8b8-464d-8122-84da0e8e5d71}  
[Finished in 0.2s]
```