

xctf 逆向crackme题解

原创

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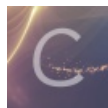
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订阅专栏



[Xctf题解](#)

6 篇文章 0 订阅

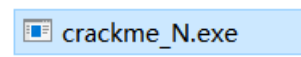
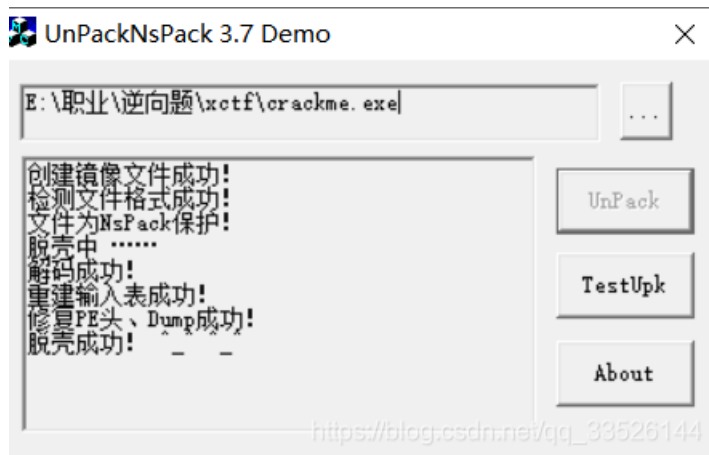
订阅专栏

1.运行, 运行不了, 查壳, 发现是nspack壳。





2.在xp系统环境，用od载入，发现失败，用脱壳机脱壳。



3.拖入到ida中，在main函数中看到关键代码

```

if ( strlen(&Buf) == 42 )
{
    v4 = 0;
    while ( (*(&Buf + v4) ^ byte_402130[v4 % 16]) == dword_402150[v4] )
    {
        if ( ++v4 >= 42 )
        {
            printf("right!\n");
            goto LABEL_8;
        }
    }
}

```

```

.nsp0:00402130 byte_402130      db 't'                                ; DATA
.nsp0:00402130                                     ; t
.nsp0:00402131 aHisIsNotFlag  db 'his_is_not_flag',0

.nsp0:00402150 dword_402150      dd 12h                                ; DATA XREF: main+8D↑r
.nsp0:00402154                                     dd 4, 8, 14h, 24h, 5Ch, 4Ah, 3Dh, 56h, 0Ah, 10h, 67h, 0
.nsp0:00402184                                     dd 41h, 0
.nsp0:0040218C                                     dd 1, 46h, 5Ah, 44h, 42h, 6Eh, 0Ch, 44h, 72h, 0Ch, 0Dh
.nsp0:0040218C                                     dd 40h, 3Eh, 4Bh, 5Fh, 2, 1, 4Ch, 5Eh, 5Bh, 17h, 6Eh, 0Ch
.nsp0:0040218C                                     dd 16h, 68h, 5Bh, 12h, 2 dup(0)
.nsp0:00402200                                     dd 48h, 0Eh dup(0)

```

分析算法可知，计算flag的代码如下：

```

s='this_is_not_flag'

a=[
0x12,0x4,0x8,0x14,0x24,0x5C,0x4A,0x3D,0x56,0x0A,0x10,0x67,0x0,0x41,0x0,0x1,0x46,0x5A,0x44,0x42,0x6E,0x0C,0x44,0x
72,0x0C,0x0D,0x40, 0x3E, 0x4B, 0x5F, 0x2, 0x1, 0x4C, 0x5E, 0x5B, 0x17, 0x6E, 0x0C,0x16,0x68,0x5B,0x12,0,0,0x48,0
,0,0,0,0,0,0,0,0,0,0,0
]

flag=''

for i in range(0,42):
    flag+=chr(ord(s[i%16])^a[i])

print flag

```

flag为: flag{59b8ed8f-af22-11e7-bb4a-3cf862d1ee75}