

buu Reverse学习记录(24) [ACTF新生赛2020]easyre

原创

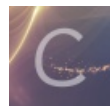
EMsheep 于 2021-03-11 20:29:04 发布 51 收藏

分类专栏: [buu reverse](#)

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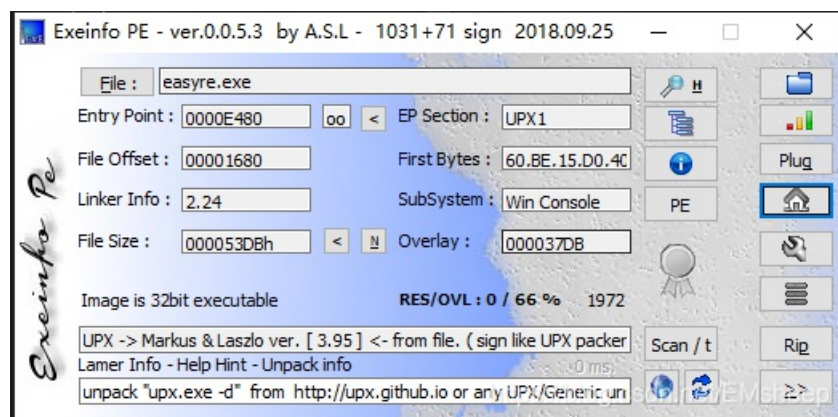
[buu reverse](#) 专栏收录该内容

30 篇文章 1 订阅

订阅专栏

题目链接: [https://buuoj.cn/challenges#\[ACTF%E6%96%B0%E7%94%9F%E8%B5%9B2020\]easyre](https://buuoj.cn/challenges#[ACTF%E6%96%B0%E7%94%9F%E8%B5%9B2020]easyre)

把题目拖进exeinfo查看一下, 是个32位有壳的exe, 用upx脱下壳



把脱壳后的exe拖进IDA里, 找到main函数进行查看。

```

1 int __cdecl main(int argc, const char **argv, const char **envp)
2 {
3     char v4; // [esp+12h] [ebp-2Eh]
4     char v5; // [esp+13h] [ebp-2Dh]
5     char v6; // [esp+14h] [ebp-2Ch]
6     char v7; // [esp+15h] [ebp-2Bh]
7     char v8; // [esp+16h] [ebp-2Ah]
8     char v9; // [esp+17h] [ebp-29h]
9     char v10; // [esp+18h] [ebp-28h]
10    char v11; // [esp+19h] [ebp-27h]
11    char v12; // [esp+1Ah] [ebp-26h]
12    char v13; // [esp+1Bh] [ebp-25h]
13    char v14; // [esp+1Ch] [ebp-24h]
14    char v15; // [esp+1Dh] [ebp-23h]
15    int v16; // [esp+1Eh] [ebp-22h]
16    int v17; // [esp+22h] [ebp-1Eh]
17    int v18; // [esp+26h] [ebp-1Ah]
18    __int16 v19; // [esp+2Ah] [ebp-16h]
19    char v20; // [esp+2Ch] [ebp-14h]
20    char v21; // [esp+2Dh] [ebp-13h]
21    char v22; // [esp+2Eh] [ebp-12h]
22    int v23; // [esp+2Fh] [ebp-11h]
23    int v24; // [esp+33h] [ebp-Dh]
24    int v25; // [esp+37h] [ebp-9h]
25    char v26; // [esp+3Bh] [ebp-5h]
26    int i; // [esp+3Ch] [ebp-4h]
27
28    sub_401A10();
29    v4 = 42;
30    v5 = 70;
31    v6 = 39;
32    v7 = 34;
33    v8 = 78;
34    v9 = 44;
35    v10 = 34;
36    v11 = 40;
37    v12 = 73;
38    v13 = 63;
39    v14 = 43;
40    v15 = 64;
41    printf("Please input:");
42    scanf("%s", &v19);
43    if ( (_BYTE)v19 != 'A' || HIBYTE(v19) != 'C' || v20 != 'T' || v21 != 'F' || v22 != '{' || v26 != '}')
44        return 0;
45    v16 = v23;
46    v17 = v24;
47    v18 = v25;
48    for ( i = 0; i <= 11; ++i )
49    {
50        if ( *(&v4 + i) != byte_402000[*((char *)&v16 + i) - 1] )
51            return 0;
52    }
53    printf("You are correct!");
54    return 0;
55 }

```

<https://blog.csdn.net/EMsheep>

是个加密方式，查看下数组byte_402000

```

.data:00402000 ; char byte_402000[]
.data:00402000 byte_402000 db 7Eh ; DATA XREF: _main+EC1r
.data:00402001 aZyxwvutsrqponmlkjihgfedcba`_^]\[ZYXWVUTSRQPONMLKJIHGFCBA@?>=<'
.data:00402001 db '<;9876543210/.-,+*)(',27h,'&$$#!"',0
.data:00402060 align 40h

```

写个脚本解密一下，得到flag

```

s = [42,70,39,34,78,44,34,40,73,63,43,64]
key = '~}|{zyxwvutsrqponmlkjihgfedcba`_^]\[ZYXWVUTSRQPONMLKJIHGFCBA@?>=<;9876543210/.-,+*)('+chr(0x27)+'&$$#!"'
flag = ''
for i in range(12):
    x = key.find(chr(s[i]))+1
    flag += chr(x)
print(flag)

```

flag:U9X_1S_W6@T?