

攻防世界 Reverse高手进阶区 2分题 srm-50

原创

思源湖的鱼  于 2020-12-01 14:11:02 发布  118  收藏

分类专栏: [ctf](#) 文章标签: [攻防世界](#) [ctf reverse](#)

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/weixin_44604541/article/details/110430420

版权

CTF

[ctf 专栏收录该内容](#)

200 篇文章 23 订阅

订阅专栏

前言

继续ctf的旅程

攻防世界Reverse高手进阶区的2分题

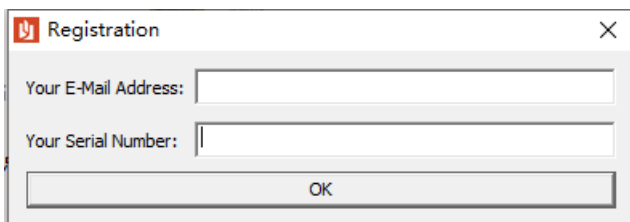
本篇是srm-50的writeup

发现攻防世界的题目分数是动态的

就仅以做题时的分数为准了

解题过程

下下来一个exe



PE查壳



扔进IDA

```

1 300L __stdcall DialogFunc(HWND hDlg, UINT a2, WPARAM a3, LPARAM a4)
2 {
3     HMODULE v5; // eax
4     HICON v6; // eax
5     HMODULE v7; // eax
6     HCURSOR v8; // ST20_4
7     HWND v9; // eax
8     CHAR String; // [esp+8h] [ebp-340h]
9     CHAR v11[4]; // [esp+108h] [ebp-240h]
10    char v12; // [esp+10Ch] [ebp-23Ch]
11    char v13; // [esp+10Dh] [ebp-238h]
12    char v14; // [esp+10Eh] [ebp-23Ah]
13    char v15; // [esp+10Fh] [ebp-239h]
14    char v16; // [esp+110h] [ebp-238h]
15    char v17; // [esp+111h] [ebp-237h]
16    char v18; // [esp+112h] [ebp-236h]
17    char v19; // [esp+113h] [ebp-235h]
18    char v20; // [esp+114h] [ebp-234h]
19    char v21; // [esp+115h] [ebp-233h]
20    char v22; // [esp+116h] [ebp-232h]
21    char v23; // [esp+117h] [ebp-231h]
22    CHAR Text; // [esp+208h] [ebp-140h]
23    char Src[16]; // [esp+308h] [ebp-40h]
24    __int128 v26; // [esp+318h] [ebp-30h]
25    int v27; // [esp+328h] [ebp-20h]
26    __int128 v28; // [esp+32Ch] [ebp-1Ch]
27    int v29; // [esp+33Ch] [ebp-Ch]
28    __int16 v30; // [esp+340h] [ebp-8h]
29

```

https://blog.csdn.net/weixin_44604541

```

30 | if ( a2 == 16 )
31 | {
32 |     EndDialog(hDlg, 0);
33 |     return 0;
34 | }
35 | if ( a2 == 272 )
36 | {
37 |     v5 = GetModuleHandleW(0);
38 |     v6 = LoadIconW(v5, (LPCWSTR)0x67);
39 |     SetClassLongA(hDlg, -14, (LONG)v6);
40 |     v7 = GetModuleHandleW(0);
41 |     v8 = LoadCursorW(v7, (LPCWSTR)0x66);
42 |     v9 = GetDlgItem(hDlg, 1);
43 |     SetClassLongA(v9, -12, (LONG)v8);
44 |     return 1;
45 | }
46 | if ( a2 != 273 || (unsigned __int16)a3 != 1 )
47 |     return 0;
48 | memset(&String, (unsigned __int16)a3 - 1, 0x100u);
49 | memset(v11, 0, 0x100u);
50 | memset(&Text, 0, 0x100u);
51 | GetDlgItemTextA(hDlg, 1001, &String, 256);
52 | GetDlgItemTextA(hDlg, 1002, v11, 256);
53 | if ( strstr(&String, "@") && strstr(&String, ".") && strstr(&String, ".")[1] && strstr(&String, "@")[1] != 46 )
54 | {
55 |     v28 = xmmword_410AA0;
56 |     v29 = 1701999980;
57 |     *(_OWORD *)Src = xmmword_410A90;
58 |     v30 = 46;
59 |     v26 = xmmword_410A80;
60 |     v27 = 3830633;

```

https://blog.csdn.net/weixin_44604541

```

61 | if ( strlen(v11) != 16
62 |     || v11[0] != 67
63 |     || v23 != 88
64 |     || v11[1] != 90
65 |     || v11[1] + v22 != 155
66 |     || v11[2] != 57
67 |     || v11[2] + v21 != 155
68 |     || v11[3] != 100
69 |     || v20 != 55
70 |     || v12 != 109
71 |     || v19 != 71
72 |     || v13 != 113
73 |     || v13 + v18 != 170
74 |     || v14 != 52
75 |     || v17 != 103
76 |     || v15 != 99
77 |     || v16 != 56 )
78 | {
79 |     strcpy_s(&Text, 0x100u, (const char *)&v28);
80 | }
81 | else
82 | {
83 |     strcpy_s(&Text, 0x100u, Src);
84 |     strcat_s(&Text, 0x100u, v11);
85 | }
86 | }
87 | else
88 | {
89 |     strcpy_s(&Text, 0x100u, "Your E-mail address in not valid.");
90 | }
91 | MessageBoxA(hDlg, &Text, "Registration", 0x40u);
92 | return 1;
93 | }

```

https://blog.csdn.net/weixin_44604541

关键的if判断如下

```
if (strlen(v12) != 16           //序列号长度要等于16
    || v12[0] != 67             //第一个字符要为字母C
    || v24 != 88               //v24要为字母X
    || v12[1] != 90           //第二个字符要为字母Z
    || v12[1] + v23 != 155     //v23要为字母A
    || v12[2] != 57           //第三个字符要为数字9
    || v12[2] + v22 != 155     //v22要为字母b
    || v12[3] != 100          //第四个字符要为字母d
    || v21 != 55              //v21要为数字7
    || v13 != 109            //v13要为字母m
    || v20 != 71             //v20要为字母G
    || v14 != 113           //v14要为字母q
    || v14 + v19 != 170      //v19要为数字9
    || v15 != 52            //v15要为数字4
    || v18 != 103          //v18要为字母g
    || v16 != 99            //v16要为字母c
    || v17 != 56)          //v17要为字母8
```

又esp+108是V12[0], esp+109是v12[1], esp+10A是v12[2], esp+10B是v12[3], esp+10C是v13..., 按照这个存储顺序, 依次类推就能得出flag: **CZ9dmq4c8g9G7bAX**

结语

简单题