

南邮CTF逆向题第一道Hello,RE!解题思路

原创

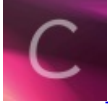
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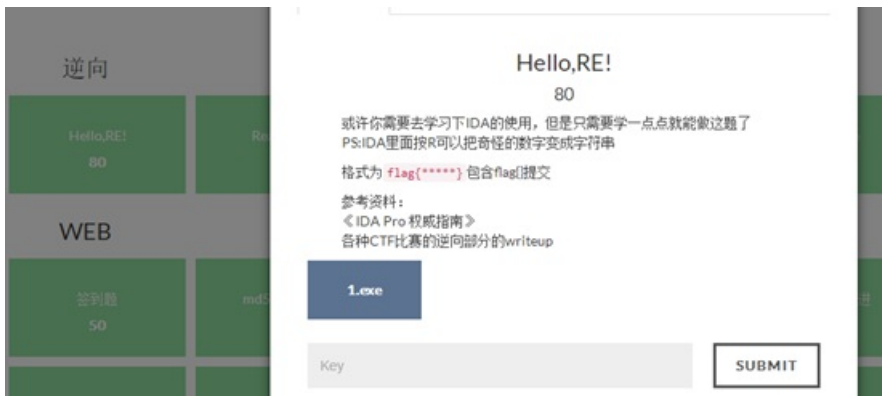
订阅专栏

我的CTF进阶之路

108 篇文章 18 订阅

订阅专栏

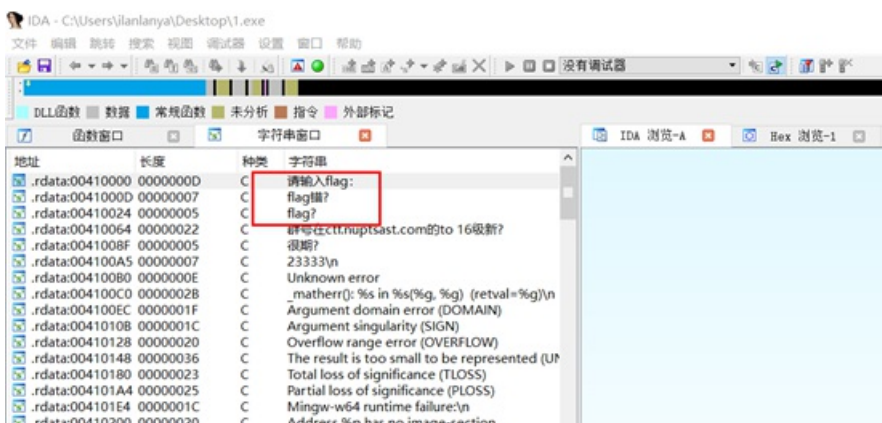
首先可以看到提示如下



我还是查了一下 无壳

提示用IDA

那我们就载入 shift+f12查找字符串



双击进入 在右侧窗口接着双击 然后f5看到了伪代码 于是点击字符串全按R即可

```

IDA 浏览-A x 伪代码-A x Hex 浏览-1 x A 结构体 x
1 int __cdecl main(int argc, const char **argv, const char **envp)
2 {
3     _BYTE v4[3]; // [sp+11h] [bp-7Fh]@2
4     signed int v5; // [sp+75h] [bp-18h]@1
5     signed int v6; // [sp+79h] [bp-17h]@1
6     signed int v7; // [sp+7Dh] [bp-13h]@1
7     signed int v8; // [sp+81h] [bp-Fh]@1
8     signed int v9; // [sp+85h] [bp-Bh]@1
9     signed int v10; // [sp+89h] [bp-7h]@1
10    signed __int16 v11; // [sp+8Dh] [bp-3h]@1
11    char v12; // [sp+8Fh] [bp-1h]@1
12
13    __main();
14    printf("请输入flag: ");
15    v5 = 'galf';
16    v6 = 'leW{';
17    v7 = 1701670755;
18    v8 = 1601131615;
19    v9 = 1465861458;
20    v10 = 1684828783;
21    v11 = 32033;
22    v12 = 0;
23    while ( scanf("%s", v4) != -1 && strcmp(v4, (const char *)&v5) )
24        printf("flag错误.再试试? \n");
25    printf("flag正确. \n");
26    printf("如果是南邮16级新生并且感觉自己喜欢逆向的话记得加群\n");
27    printf("群号在ctf.nuptsast.com的to 16级新生页面里\n");
28    printf("很期待遇见喜欢re的新生23333\n");
29    getchar();
30    getchar();
31    return 0;
32 }

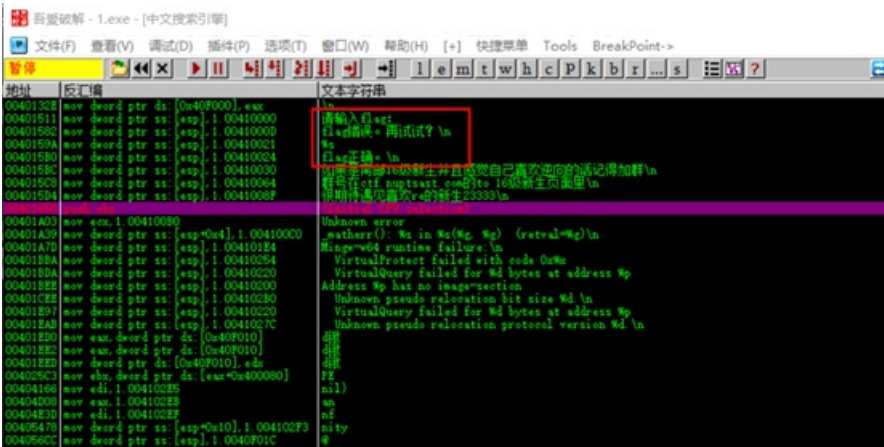
```

```

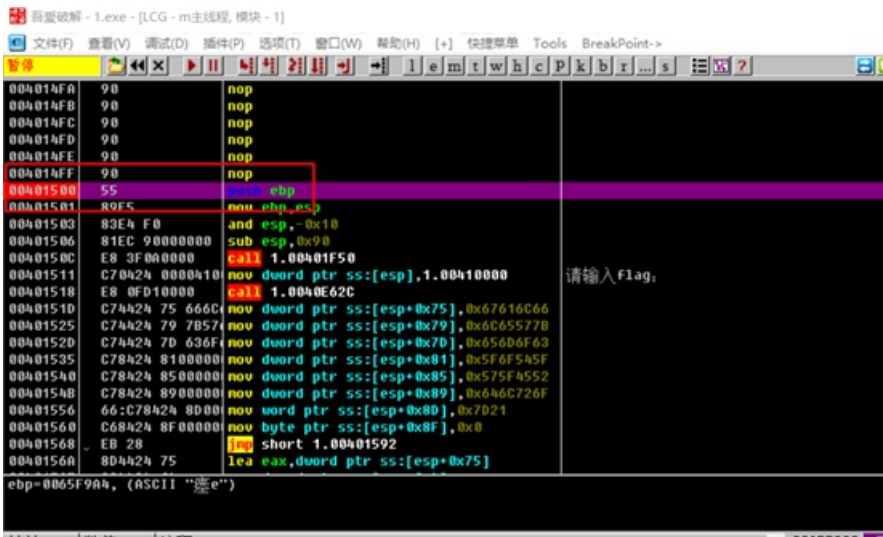
12
13 __main();
14 printf("请输入flag: ");
15 v5 = 'galf';
16 v6 = 'leW{';
17 v7 = 'emoc';
18 v8 = '_oT_';
19 v9 = 'W_ER';
20 v10 = 'dlro';
21 v11 = '}!';
22 v12 = 0;

```

我再用OD试一下

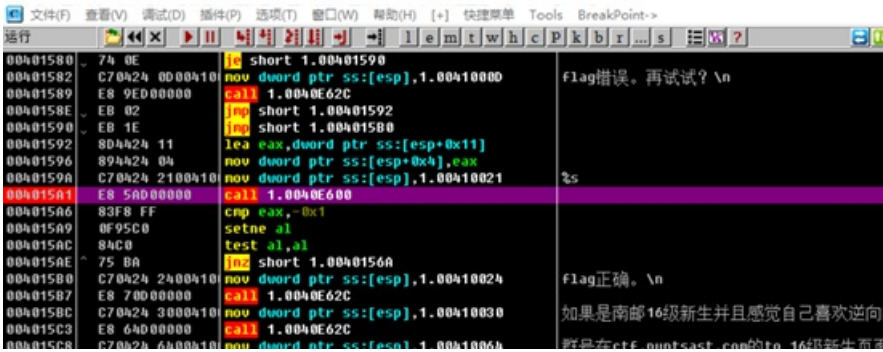


段首F2下断

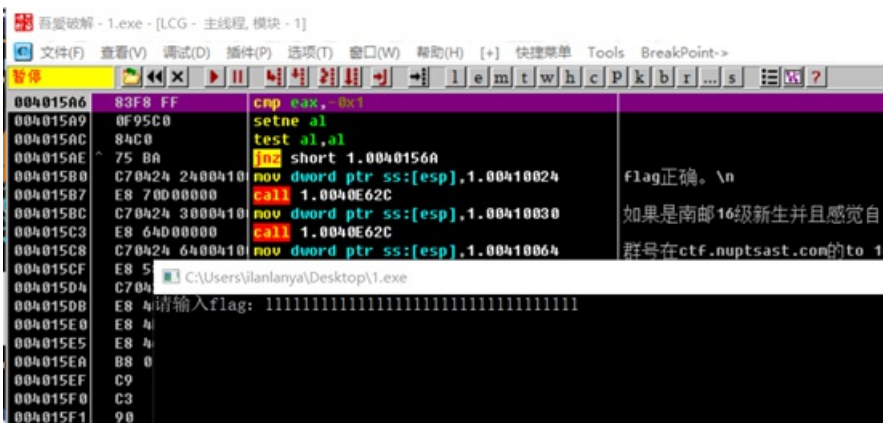


F9运行 段下来后接着单步

走到这个call处



输入假码 回车



接着慢慢向下单步走

没走两步 就发现flag

BreakPoint

```

00401568 80A24 75    jnz eax_dword ptr ss:[esp+0x75]
0040156E 89A24 0A    mov dword ptr ss:[esp+0A],eax
00401572 80A24 11    jnz eax_dword ptr ss:[esp+0x11]
00401576 89A24     mov dword ptr ss:[esp],eax
00401579 EB 8C7000  jmp 4msvcrt.7strcmp
0040157E 95C8     test eax,ecx
00401580 74 0E    jz short 1.00401590
00401582 C7A24 000A10 mov dword ptr ss:[esp],1.00410000
00401589 EB 9ED000  jmp 1.0040E62C
0040158E EB 02    jnz short 1.00401592
00401590 EB 1E    jnz short 1.00401580
00401592 80A24 11    jnz eax_dword ptr ss:[esp+0x11]
00401596 89A24 0A    mov dword ptr ss:[esp+0A],eax
0040159A C7A24 210A10 mov dword ptr ss:[esp],1.00410A21
004015A1 EB 5AD000  jmp 1.0040E600
004015A6 82F8 FF    cmp eax,-0x1
004015A9 8F95C8    setnb al
004015AC 84C8     test al,al
004015AE 75 0A    jnz short 1.004015A0
004015B0 C7A24 2A0A10 mov dword ptr ss:[esp],1.00410A2A
004015B7 EB 70D000  jmp 1.0040E62C
004015BC C7A24 300A10 mov dword ptr ss:[esp],1.00410A30
004015C3 EB 6AD000  jmp 1.0040E62C

```

00401568-00401571, (ASCII "11111111111111111111111111111111")
eax=005FE195, (ASCII "Flag>Welcome_To_RE_World")

00401572 00410001 ASCII "\n"
00401576 005FE195 ASCII "Flag>Welcome_To_RE_World"
0040157E 00000000
0040157C 00401000 1.00401000

flag错误, 再试试? \n
3s
flag正确. \n
如果是南部16位新生并且感觉自己喜欢逆向的话记得加群\n

eax=005FE195, (ASCII "11111111111111111111111111111111")
eax=005FE195, (ASCII "Flag>Welcome_To_RE_World")