

XCTF GAME

原创

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26 篇文章 2 订阅

订阅专栏

首先这题有两种解法, 一种是使用ida查看伪代码直接写exp跑出flag, 另外一种调试, 因为最近在学调试, 刚好用于实战上了。

一.查壳



二.32位文件拖入od动态调试

先找到game的主要函数, 插件中文智能搜索一下所有的字符串。

地址	反汇编	文本字符串
00457839	jmp a0f2af98.00460370	(Initial CPU selection)
0045E90E	push a0f2af98.0050AE50	1. Δ 2. ◻ 3. ◇ 4. ◻ 5. ☆ 6. ▽ 7. (▽▽) / 8. (· II*) 0.restart\n
0045F968	push a0f2af98.0050B0F0	Done!!! the flag is
0045EBC8	push a0f2af98.0050B10C	%s\n
0045ED0E	push a0f2af98.0050AEAO	-----
0045ED2E	push a0f2af98.0050AECC	/
0045ED3D	push a0f2af98.0050AED0	---
0045ED4A	push a0f2af98.0050AED4	-----
0045ED6A	push a0f2af98.0050AEE0	Δ
0045ED79	push a0f2af98.0050AEE4	▲
0045ED86	push a0f2af98.0050AEE8	-----\n
0045ED93	push a0f2af98.0050AEA0	-----
0045EDB3	push a0f2af98.0050AECC	/
0045EDC2	push a0f2af98.0050AED0	---
0045EDCF	push a0f2af98.0050AED4	-----
0045EDEF	push a0f2af98.0050AEF8	○
0045EDFE	push a0f2af98.0050AEFC	●
0045EE08	push a0f2af98.0050AEE8	-----\n
0045EE18	push a0f2af98.0050AEA0	-----
0045EE37	push a0f2af98.0050AECC	/
0045EE46	push a0f2af98.0050AED0	---
0045EE53	push a0f2af98.0050AED4	-----
0045EE72	push a0f2af98.0050AF00	◇
0045EE81	push a0f2af98.0050AF04	◆
0045EE8E	push a0f2af98.0050AEE8	-----\n
0045EF9B	push a0f2af98.0050AEA0	-----
0045EFBB	push a0f2af98.0050AECC	/
0045EECA	push a0f2af98.0050AED0	---
0045EED7	push a0f2af98.0050AED4	-----
0045EEF7	push a0f2af98.0050AF08	□
0045EF06	push a0f2af98.0050AF0C	■
0045EF13	push a0f2af98.0050AEE8	-----\n
0045EF20	push a0f2af98.0050AF10	-----
0045EF40	push a0f2af98.0050AECC	/
0045EF4F	push a0f2af98.0050AED0	---
0045EF5C	push a0f2af98.0050AED4	-----

```

0045EF7C push a0f2af98.0050AF3C
0045EF88 push a0f2af98.0050AF40
0045EF98 push a0f2af98.0050AEE8
0045EFA5 push a0f2af98.0050AF44
0045EFC5 push a0f2af98.0050AECC
0045EFD4 push a0f2af98.0050AED0
0045EFE1 push a0f2af98.0050AED4
0045F001 push a0f2af98.0050AF70
0045F010 push a0f2af98.0050AF74
0045F01D push a0f2af98.0050AEE8
0045F02A push a0f2af98.0050AF44
0045F04A push a0f2af98.0050AECC
0045F059 push a0f2af98.0050AED0
0045F066 push a0f2af98.0050AF78
0045F086 push a0f2af98.0050AF80
0045F095 push a0f2af98.0050AF90
0045F0A2 push a0f2af98.0050AFAD
0045F0AF push a0f2af98.0050AF44
0045F0CF push a0f2af98.0050AECC
0045F0DE push a0f2af98.0050AED0
0045F0EB push a0f2af98.0050AF78
0045F108 push a0f2af98.0050AFAD
0045F11A push a0f2af98.0050AFB8
0045F127 push a0f2af98.0050AFC8
0045F134 push a0f2af98.0050AFD0
0045F141 push a0f2af98.0050B018
0045F14E push a0f2af98.0050B060
0045F15B push a0f2af98.0050B0A8
0045F41E push a0f2af98.0050B110
0045F42B push a0f2af98.0050B158
0045F438 push a0f2af98.0050B1A0
0045F445 push a0f2af98.0050B1E8

```

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```

0045F452 push a0f2af98.0050B230
0045F45F push a0f2af98.0050B278
0045F46C push a0f2af98.0050B2C0
0045F479 push a0f2af98.0050B308
0045F486 push a0f2af98.0050AFD0
0045F493 push a0f2af98.0050B350
0045F4A0 push a0f2af98.0050B060
0045F4AD push a0f2af98.0050B0A8
0045F4BA push a0f2af98.0050B398
0045F4C7 push a0f2af98.0050B464
0045F4D4 push a0f2af98.0050B498
0045F4E1 push a0f2af98.0050B53C
0045F4EE push a0f2af98.0050B56C
0045F508 push a0f2af98.0050B57C
0045F51A push a0f2af98.0050B590
0045F52B push a0f2af98.0050B594
0045F538 push a0f2af98.0050B598
0045F551 push a0f2af98.0050B59C
0045F5B7 push a0f2af98.0050B5BC
0045F9A5 push a0f2af98.0050B5C0
0045FAD4 push a0f2af98.0050B5C0
0045FC37 push a0f2af98.0050B5C0
0045FEC0 mov eax,a0f2af98.00459B52
00460554 push a0f2af98.0050BB10
00460579 push a0f2af98.0050BB68
00460587 push a0f2af98.0050BB74
0046058D push a0f2af98.0050BB8A
00460593 push a0f2af98.0050BBB4
00460598 push a0f2af98.0050BBC8
0046059D push a0f2af98.0050BC20
004605CE push a0f2af98.0050B598
004605D4 push a0f2af98.0050BC38
004605E3 push a0f2af98.0050BC3C
004606A2 mov edx,dword ptr ds:[eax*4+0x50B5CC]
004606BE mov ecx,dword ptr ds:[0x50B5E0]
00460760 mov cl,byte ptr ds:[eax+0x50B5FC]
00460792 mov ecx,a0f2af98.0050B618
004607D5 mov eax,a0f2af98.0050BAD8
0046087A push a0f2af98.0050B808
00460990 mov ebx,a0f2af98.0050B9B0
00460A2D push a0f2af98.0050BA38
00460A5E mov esi,a0f2af98.0050BA84
00460A93 mov edi,a0f2af98.0050BA98

```

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找到了，那个input:的字符串，就是我们需要找到game的函数，同时在第一张图片中也找到了一个done flag is，猜测是正确后会得到flag，那么只要修改汇编代码，直接跳转到done这个的函数，不就出来了吗。

```

7C93BCA9 75 1F int short ntd11.7C93BCCA
7C93BCAB 8D45 E0 lea eax,dword ptr ss:[ebp-0x20]
7C93BCAE 50 push eax
7C93BCAF 8D85 78FFFFFF lea eax,dword ptr ss:[ebp-0x88]
7C93BCB5 50 push eax
7C93BCB6 8D45 C4 lea eax,dword ptr ss:[ebp-0x3C]
7C93BCB9 50 push eax
7C93BCBA 56 push esi
7C93BCBB E8 68160000 call ntd11.7C93D328
7C93BCB8 8BF8 mov edi,eax
7C93BCB2 3BF8 cmp edi,ebx
7C93BCB4 0F8C 6D490200 jl ntd11.7C960637
7C93BCB0 395D E0 cmp dword ptr ss:[ebp-0x20],ebx
7C93BCD0 0F84 10090000 je ntd11.7C93C5E3
7C93BCD3 C645 C1 01 mov byte ptr ss:[ebp-0x3F],0x1
7C93BCD7 895D E4 mov dword ptr ss:[ebp-0x1C],ebx
7C93BCDA 895D D8 mov dword ptr ss:[ebp-0x28],ebx
7C93BCDD 8B45 A4 mov eax,dword ptr ss:[ebp-0x5C]
7C93BCE0 8B70 14 mov esi,dword ptr ds:[eax+0x14]
7C93BCE3 8B4D C8 mov ecx,dword ptr ds:[ebp-0x38]
7C93BCE6 8948 14 mov dword ptr ds:[eax+0x14],ecx
7C93BCE9 6A 04 push 0x4
7C93BCEB 53 push ebx
7C93BCEC 6A 01 push 0x1
7C93BCEE 8D45 D8 lea eax,dword ptr ss:[ebp-0x28]
7C93BCF1 50 push eax
7C93BCF2 53 push ebx
7C93BCF3 53 push ebx
7C93BCF4 53 push ebx
7C93BCF5 8D45 C4 lea eax,dword ptr ss:[ebp-0x1C]

```

7C93BCF7	50	lea ebx,dword ptr ss:[ebp-0x10]	1.△ 2.○ 3.◇ 4.□ 5.☆ 6.▽ 7.< ▽ >/ 8.<;° ▨° > 0.restart	3
7C93BCF8	6A FF	push eax	n=9	Cond 0
7C93BCF9	FF75 E0	push -0x1		Prec N
7C93BCFB	E8 FD17FFFF	push dword ptr ss:[ebp-0x20]	done!!! the flag is zscft{T9is_t0pic_1s_v5ry_int7resting_b6t_others_are_n0t}	
7C93BCFE		call ntdll.ZwMapViewOfSection	QQPinyin 半:	

eax=00000000		
edi=00000000		

地址	HEX 数据	ASCII
00401000	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	-----
00401010	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	-----
00401020	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	-----
00401030	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	-----
00401040	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	-----
00401050	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	-----
00401060	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	-----
00401070	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	-----
00401080	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	-----
00401090	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	-----
004010A0	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	-----
004010B0	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	-----
004010C0	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	-----

0012DE30	0012E488
0012DE34	0012E488
0012DE38	00000000
0012DE3C	00000000
0012DE40	00000000
0012DE44	00000000
0012DE48	00000000
0012DE4C	00000000
0012DE50	00000000
0012DE54	00000000
0012DE58	00000000
0012DE5C	00000000
0012DE60	00000000
0012DE64	00000000

这里调试过程真的算简单的一批了，单步调试一步一步，之后jmp一下函数，结束了。