

re学习笔记（19）i春秋-re-crackme

原创

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112 篇文章 6 订阅

订阅专栏



[reverse](#)

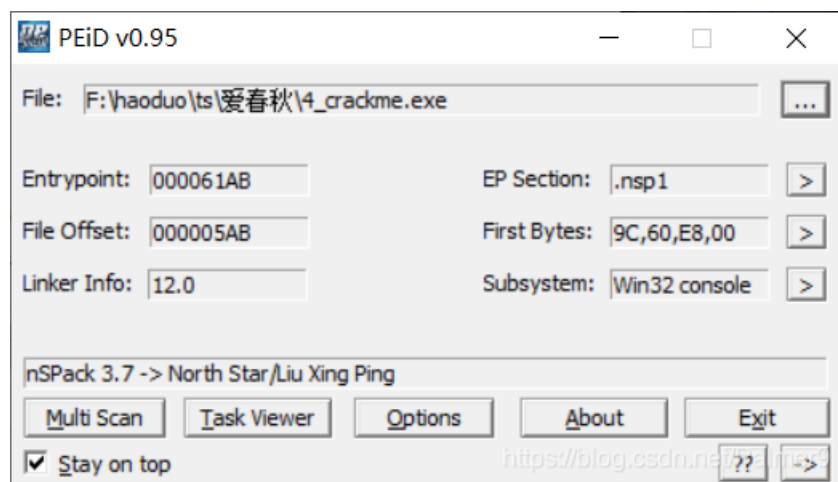
113 篇文章 6 订阅

订阅专栏

新手一枚, 如有错误(不足)请指正, 谢谢!!

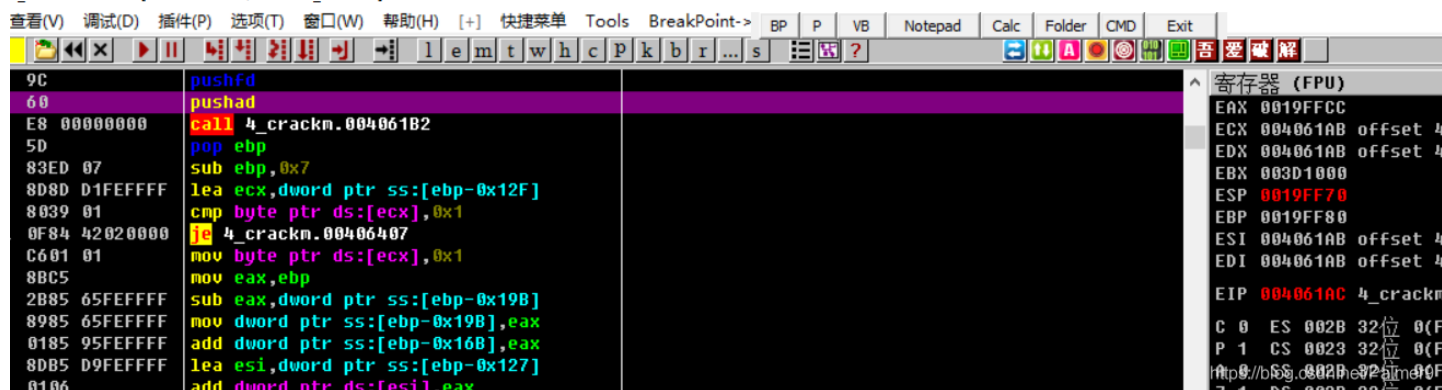
题目下载: [下载地址](#)

先用peid查壳

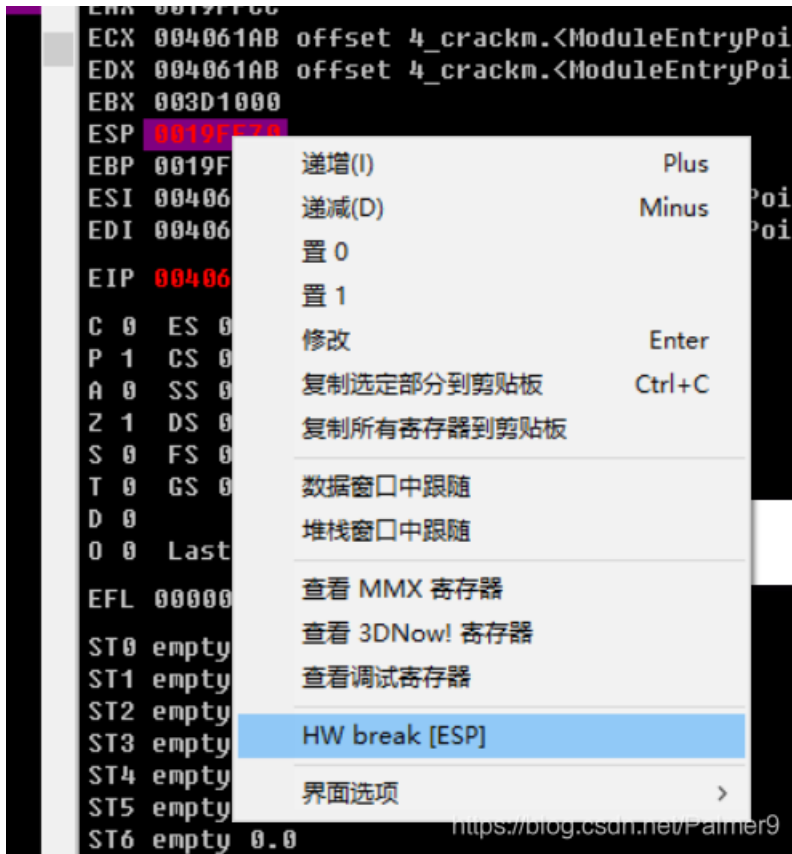


nsp1的壳, exe可执行文件, 打开od, F8单步一下, 发现可以使用esp定律脱壳

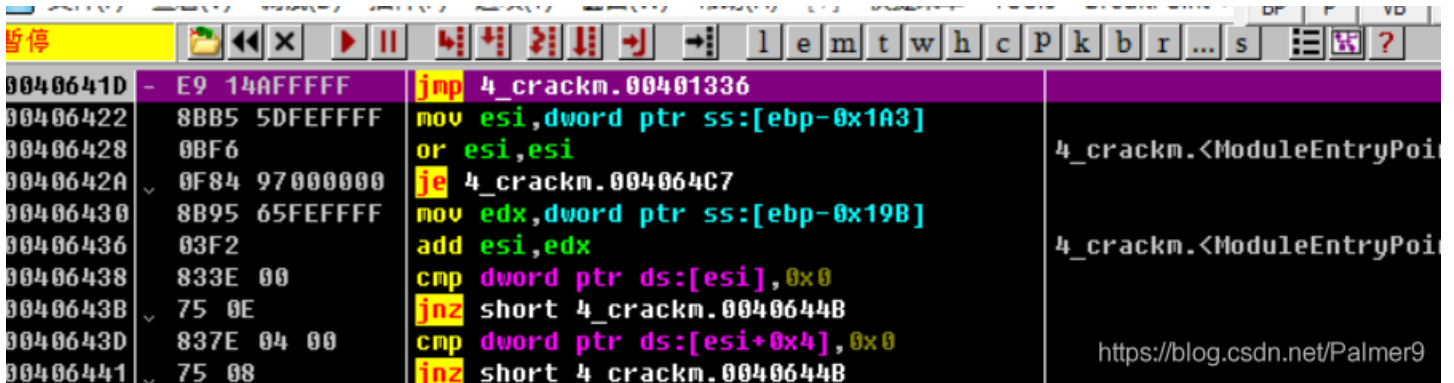
4_crackme.exe - [LCG - 主线程, 模块 - 4_crackm]



然后下硬件断点



F9运行程序



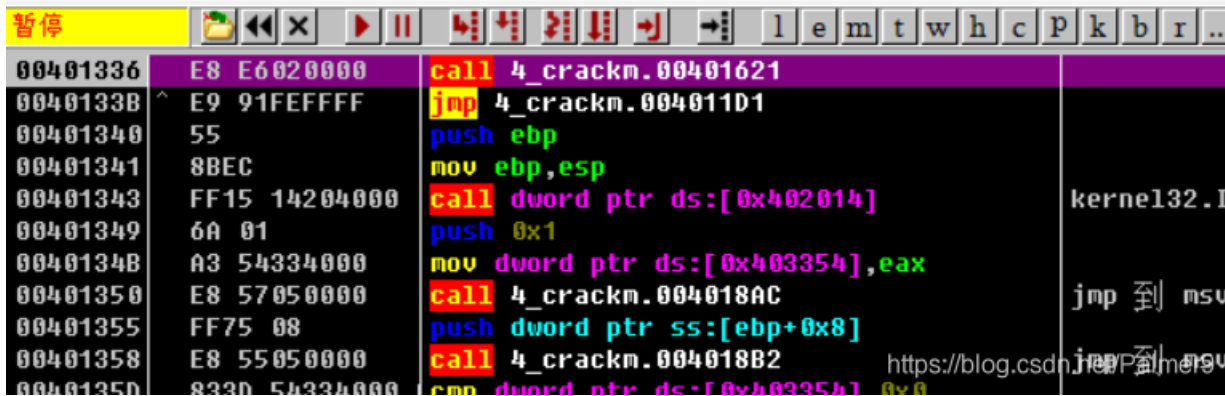
F8单步

在这里对代码进行分析，删除分析

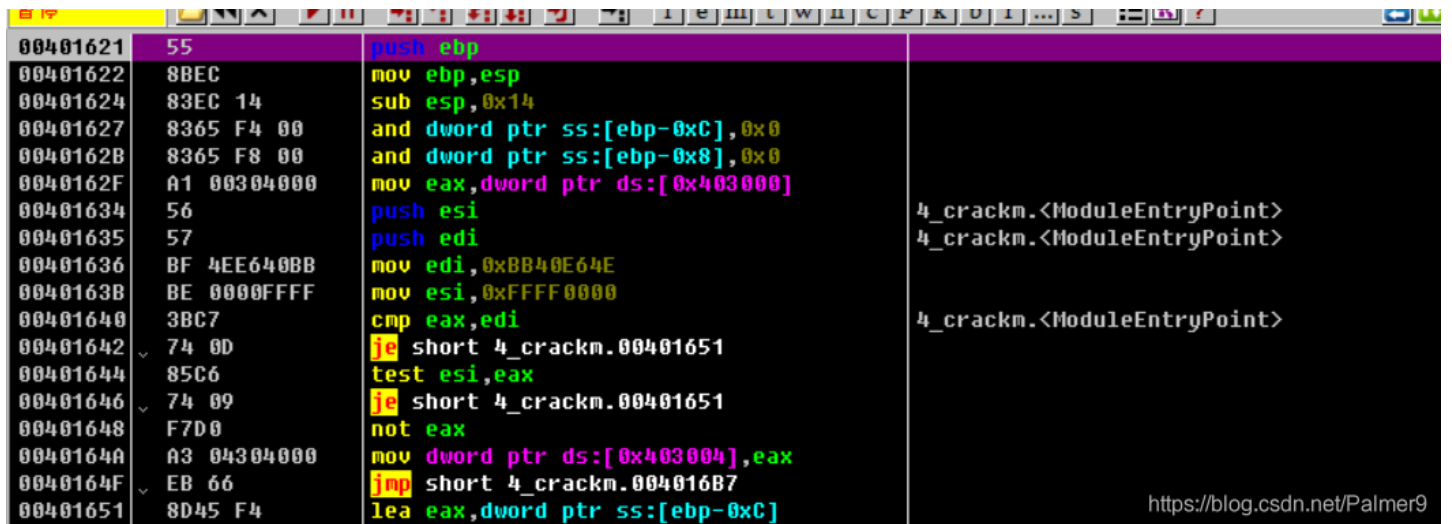




来到这里, 继续单步

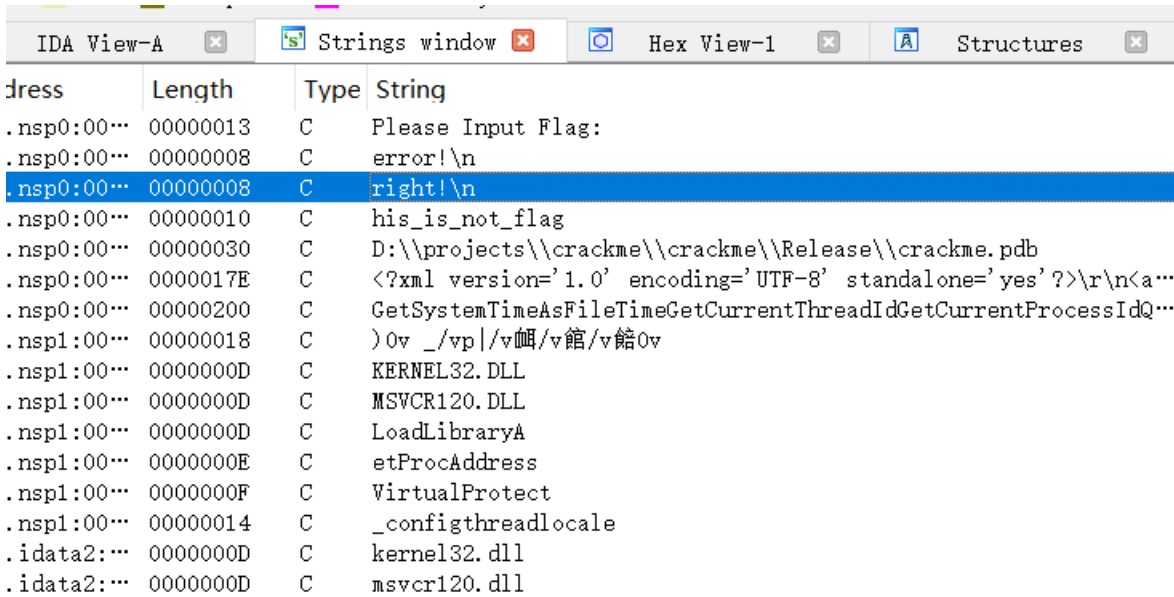


来到OEP



右键用od自带的脱壳工具脱壳

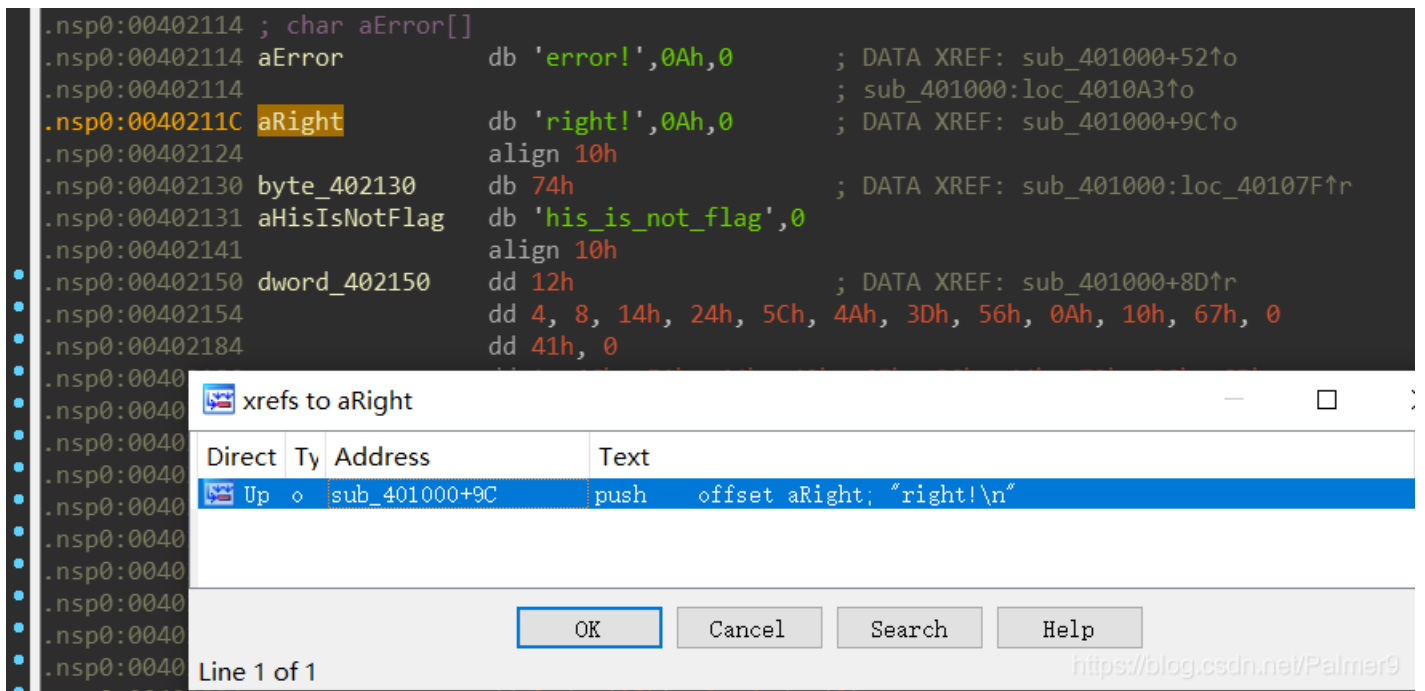
IDA载入脱壳后的程序



Address	Length	Type	String
.nsp0:00...	00000013	C	Please Input Flag:
.nsp0:00...	00000008	C	error!\n
.nsp0:00...	00000008	C	right!\n
.nsp0:00...	00000010	C	his_is_not_flag
.nsp0:00...	00000030	C	D:\projects\crackme\crackme\Release\crackme.pdb
.nsp0:00...	0000017E	C	<?xml version='1.0' encoding='UTF-8' standalone='yes'?>\r\n<a...
.nsp0:00...	00000200	C	GetSystemTimeAsFileTimeGetCurrentThreadIdGetCurrentProcessIdQ...
.nsp1:00...	00000018	C)0v _/vp /v岫/v館/v館0v
.nsp1:00...	0000000D	C	KERNEL32.DLL
.nsp1:00...	0000000D	C	MSVCR120.DLL
.nsp1:00...	0000000D	C	LoadLibraryA
.nsp1:00...	0000000E	C	GetProcAddress
.nsp1:00...	0000000F	C	VirtualProtect
.nsp1:00...	00000014	C	_configthreadlocale
.idata2:...	0000000D	C	kernel32.dll
.idata2:...	0000000D	C	msvcr120.dll

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字符串中找到right，双击
交叉引用



```
.nsp0:00402114 ; char aError[]
.nsp0:00402114 aError      db 'error!',0Ah,0      ; DATA XREF: sub_401000+52↑to
.nsp0:00402114                                     ; sub_401000:loc_4010A3↑to
.nsp0:0040211C aRight      db 'right!',0Ah,0     ; DATA XREF: sub_401000+9C↑to
.nsp0:00402124                                     align 10h
.nsp0:00402130 byte_402130  db 74h                ; DATA XREF: sub_401000:loc_40107F↑tr
.nsp0:00402131 aHisIsNotFlag db 'his_is_not_flag',0
.nsp0:00402141                                     align 10h
.nsp0:00402150 dword_402150 dd 12h                ; DATA XREF: sub_401000+8D↑tr
.nsp0:00402154                                     dd 4, 8, 14h, 24h, 5Ch, 4Ah, 3Dh, 56h, 0Ah, 10h, 67h, 0
.nsp0:00402184                                     dd 41h, 0
```

Direct	Ty	Address	Text
Up	o	sub_401000+9C	push offset aRight; "right!\n"

Line 1 of 1

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```
1 signed int sub_401000()
2 {
3     signed int result; // eax
4     int v1; // eax
5     char Buf; // [esp+4h] [ebp-38h]
6     char Dst; // [esp+5h] [ebp-37h]
7
8     Buf = 0;
9     memset(&Dst, 0, 0x31u);
10    printf("Please Input Flag:");
11    gets_s(&Buf, 0x2Cu);
12    if ( strlen(&Buf) == 42 )
```

```

13 {
14     v1 = 0;
15     while ( (*(&Buf + v1) ^ byte_402130[v1 % 16]) == dword_402150[v1] )
16     {
17         if ( ++v1 >= 42 )
18         {
19             printf("right!\n");
20             goto LABEL_8;
21         }
22     }
23     printf("error!\n");
24 LABEL_8:
25     result = 0;
26 }
27 else
28 {
29     printf("error!\n");
30     result = -1;
31 }
32 return result;
33 }

```

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F5伪代码之后

```

6
7 user_input[0] = 0;
8 memset(&user_input[1], 0, 0x31u);
9 printf("Please Input Flag:");
10 gets_s(user_input, 0x2Cu);
11 if ( strlen(user_input) == 42 ) // 用户的输入长度要等于42
12 {
13     v1 = 0;
14     while ( (user_input[v1] ^ str1[v1 % 16]) == str2[v1] ) // 将用户输入与str1异或后与str2进行比较，要相等
15     {
16         if ( ++v1 >= 42 )
17         {
18             printf("right!\n");
19             goto LABEL_8;
20         }
21     }
22     printf("error!\n");
23     result = -1;
24 }
25 return result;
26 }

```

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写脚本

```

#include <stdio.h>
int main(void)
{
    int i;
    char str1[] = "this_is_not_flag";
    char str2[] = {0x12,0x4,0x8,0x14,0x24,0x5C,0x4A,0x3D,0x56,0x0A,0x10,0x67,0x0,0x41,0x0,0x1,0x46,0x5A,0x44,0x42,0x6E,0x0C,0x44,0x72,0x0C,0x0D,0x40,0x3E,0x4B,0x5F,0x2,0x1,0x4C,0x5E,0x5B,0x17,0x6E,0x0C,0x16,0x68,0x5B,0x12};
    char flag[43] = {0};
    for(i=0;i<42;i++)
        flag[i] = str2[i] ^ str1[i%16];
    puts(flag);
    return 0;
}

```

```
main.c x
1  #include <stdio.h>
2  int main(void)
3  {
4      int i;
5      char str1[] = "this_is_not_flag";
6      char str2[] = {0x12,0x4,0x8,0x14,0x24,0x5C,0x4A,0x3D,0x56,0x0A};
7      char flag[43] = {0};
8      for(i=0;i<42;i++)
9          flag[i] = str2[i] ^ str1[i%16];
10     puts(flag);
11     return 0;
12 }
13
```

F:\haoduo\daima\C\t1\bin\Debug\t1.exe

```
flag{59b8ed8f-af22-11e7-bb4a-3cf862d1ee75}
Process returned 0 (0x0)   execution time : 0.218 s
Press any key to continue.

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```

得到flag

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

