

# buuctf——luck\_guy

原创

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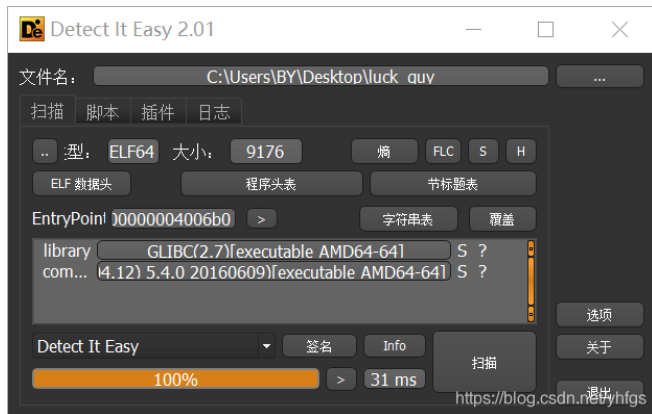
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本文链接：<https://blog.csdn.net/yhfgs/article/details/117262112>

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1. 下载得到文件luck\_guy，查壳，丢到DIE中。

无壳，64位文件。



2. 丢到IDA中，找到main函数，F5.分析代码，发现主要函数在patch\_me。

```
1 int __cdecl main(int argc, const char **argv, const char **envp)
2 {
3     unsigned int v4; // [rsp+14h] [rbp-Ch] BYREF
4     unsigned __int64 v5; // [rsp+18h] [rbp-8h]
5
6     v5 = __readfsqword(0x28u);
7     welcome(argc, argv, envp);
8     puts("_____");
9     puts("try to patch me and find flag");
10    v4 = 0;
11    puts("please input a lucky number");
12    __isoc99_scanf("%d", &v4);
13    patch_me(v4);
14    puts("OK,see you again");
15    return 0;
16 }
```

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3. 跟进patch\_me函数。发现函数get\_flag。直接跟进。

```
1 int __fastcall patch_me(int a1)
2 {
3     int result; // eax
4
5     if ( a1 % 2 == 1 )
6         result = puts("just finished");
7     else
8         result = get_flag();
9     return result;
10 }
```

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```


case 1:
    puts("OK, it's flag:");
    memset(&s, 0, 0x28uLL);
    strcat((char *)&s, f1);
    strcat((char *)&s, &f2);
    printf("%s", (const char *)&s);
    break;
case 2:
    printf("Solar not like you");
    break;
case 3:
    printf("Solar want a girlfriend");
    break;
case 4:
    s = 0x7F666F6067756369LL;
    v5 = 0;
    strcat(&f2, (const char *)&s);
    break;
case 5:
    for ( j = 0; j <= 7; ++j )
    {
        if ( j % 2 == 1 )
            *(&f2 + j) -= 2;
        else
            --*(&f2 + j);
    }

```

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4.发现flag为是s，而s为f1+f2，点击f1得到字符串 `f1` `db 'GXY{do_not_',0` ; DATA XREF: `get_flag+9Efo`

现在就差f2，分析代码，猜测代码执行顺序可能是4-5-1，直接上脚本。注：（case 4中）s中的存储方式应该是小端序存储要逆序存储。

 luck\_guy.py - C:\Users\BY\Desktop\luck\_guy1\luck\_guy.py (3.9.2)

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```

s=''
for i in [0x69, 0x63, 0x75, 0x67, 0x60, 0x6F, 0x66, 0x7F]:
    s=s+chr(i)
flag='GXY{do_not_'
for i in range(7):
    if i%2==1:
        flag=flag+chr(ord(s[i])-2)
    else:
        flag=flag+chr(ord(s[i])-1)
print(flag)

```

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5.get flag

GXY{do\_not\_hate\_me}