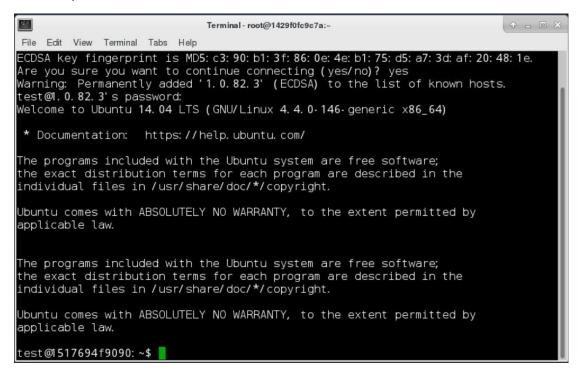
系统安全平台第九次作业

第一题



老规矩,还是 ssh 登录靶机。



根据题目提示,用 find 扫一下特权程序。

```
21/
                                      Terminal - root@1429f0fc9c7a;~
 File Edit View Terminal Tabs Help
test@1517694f9090:~$ find / -perm -u=s -type f
/bin/mount
/bin/ping
/bin/ping6
/bin/su
/bin/umount
/etc/super
find:
        `/etc/ssl/private': Permission denied
        '/proc/tty/driver': Permission denied
find:
        '/proc/1/task/1/fd': Permission denied
'/proc/1/task/1/fdinfo': Permission denied
find:
find:
        `/proc/1/task/1/ns': Permission denied
find:
        `/proc/1/fd': Permission denied
find:
        `/proc/1/map_files': Permission denied
`/proc/1/fdinfo': Permission denied
find:
find:
        '/proc/1/ns': Permission denied
find:
        '/proc/7/task/7/fd': Permission denied
'/proc/7/task/7/fdinfo': Permission denied
find:
find:
find:
        `/proc/7/task/7/ns': Permission denied
        `/proc/7/task/10/fd': Permission denied
find:
       `/proc/7/task/10/fdinfo': Permission denied
`/proc/7/task/10/ns': Permission denied
`/proc/7/task/11/fd': Permission denied
find:
find:
```

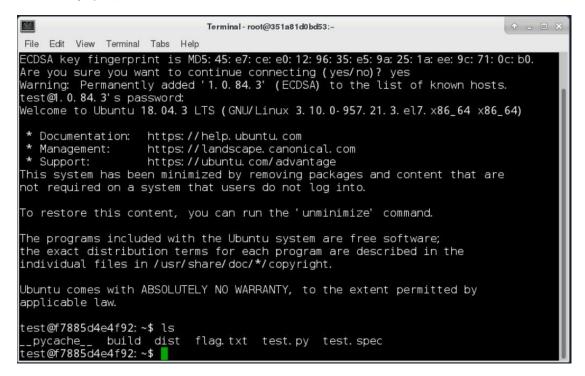
发现"/etc/super",运行一下即可。

```
Terminal - root@1429f0fc9c7a:~
File Edit View Terminal Tabs Help
         `/proc/59/task/59/ns': Permission denied
         '/proc/59/fd': Permission denied
find:
        '/proc/59/map_files': Permission denied
'/proc/59/fdinfo': Permission denied
find:
find:
        '/proc/59/ns': Permission denied
'/proc/68/task/68/fd/5': No such file or directory
find:
find:
        '/proc/68/task/68/fdinfo/5': No such file or directory
'/proc/68/fd/5': No such file or directory
find:
find:
        '/proc/68/fdinfo/5': No such file or directory
find:
find: '/root': Permission denied
 usr/bin/chfn
/usr/bin/chsh
/usr/bin/gpasswd
/usr/bin/newgrp
 usr/bin/passwd
/usr/bin/sudo
/usr/lib/eject/dmcrypt-get-device
/usi/lib/eject/amcrypt/get/device
/usr/lib/openssh/ssh-keysign
find: `/var/cache/ldconfig': Permission denied
find: `/var/spool/cron/crontabs': Permission denied
find: `/var/spool/rsyslog': Permission denied
test@|517694f9090: ~$ /etc/super
Success! Your flag is: 72263304
@test@1517694f9090:~$
```

第二题



ssh 登录靶机。

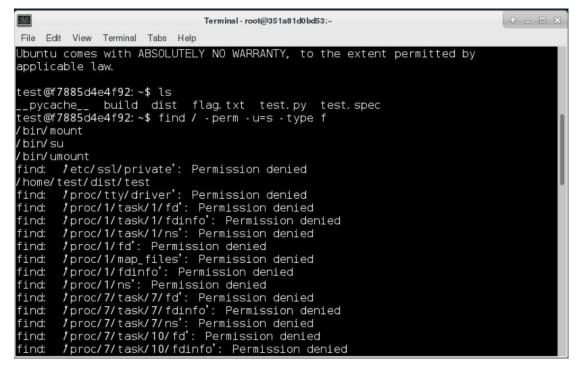


看一下文件目录,和之前做过的题型相似。

```
24
                               Terminal - root@351a81d0bd53;~
                                                                                 ↑ - □ X
 File Edit View Terminal Tabs Help
ECDSA key fingerprint is MD5: 45: e7: ce: e0: 12: 96: 35: e5: 9a: 25: 1a: ee: 9c: 71: 0c: b0.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added '1.0.84.3' (ECDSA) to the list of known hosts.
test@1.0.84.3's password:
Welcome to Ubuntu 18.04.3 LTS (GNU/Linux 3.10.0-957.21.3.el7.x86_64 x86_64)
 * Documentation: https://help.ubuntu.com
                     https://landscape.canonical.com
https://ubuntu.com/advantage
 * Support:
This system has been minimized by removing packages and content that are
not required on a system that users do not log into.
To restore this content, you can run the 'unminimize' command.
The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the individual files in /usr/share/doc/*/copyright.
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.
test@f7885d4e4f92:~$ ls
 _pycache__ build dist flag.txt test.py test.spec
test@f7885d4e4f92: ~$
```

还是先用 find 扫一下特权程序,发现了可执行程序目录

"/home/test/dist/test".



看一下 test. py 的内容, 发现运行后需要输入一个数字, 模 3 余数为 0 时可得到 flag。

```
Terminal root@351a81d0bd53:-

File Edit View Terminal Tabs Help

Import os
Import sys

try:

temp = input('input a number:')
guess = int(temp)
if (guess%) != 0:
    print('input another one')
else:

f = open("/root/flag.txt",'r')
a = f. read()
print(a)

except:

print('buzhidao')

"test.py" [readonly] 14L, 217C

1,1

All
```

```
Terminal - root@351a81d0bd53:~
  File Edit View Terminal Tabs Help
              // view Terminal Tabs Help
// proc/238/fd': Permission denied
// proc/238/map_files': Permission denied
// proc/238/fdinfo': Permission denied
// proc/238/ns': Permission denied
// proc/239/map_files': Operation not permitted
// proc/245/task/245/fdinfo/5': No such file or directory
// proc/245/map_files': Operation not permitted
// proc/245/fdinfo/6': No such file or directory
// root': Permission denied
in/chfn
 find:
find:
find:
 find:
find:
find:
find:
 find:
 /usr/bin/chfn
 /usr/bin/chsh
 /usr/bin/gpasswd
 /usr/bin/newgrp
/usr/bin/passwd
/usr/lib/openssh/ssh-keysign
 /usr/lib/dbus-1.0/dbus-daemon-launch-helper
find: /var/cache/apt/archives/partial': Permission denied find: /var/cache/ldconfig': Permission denied test@f7885d4e4f92: ~$ vi test.py test@f7885d4e4f92: ~$ ./dist/test
input a number:3
41027792
test@f7885d4e4f92: ~$ 📘
```