

LAB 1

(1)

在ubuntu虚拟机运行traceroute cybersecurity.ustc.edu.cn, 前13跳

```
david@ubuntu:~$ traceroute cybersecurity.ustc.edu.cn
traceroute to cybersecurity.ustc.edu.cn (202.38.79.51), 30 hops max, 60 byte packets
 1  _gateway (192.168.0.1)  2.013 ms  1.972 ms  1.676 ms
 2  192.168.1.1 (192.168.1.1)  1.679 ms  1.640 ms  2.351 ms
 3  172.27.0.1 (172.27.0.1)  4.340 ms  4.734 ms  5.400 ms
 4  10.60.253.209 (10.60.253.209)  29.173 ms  29.562 ms  29.228 ms
 5  211.137.46.229 (211.137.46.229)  11.183 ms  10.195 ms  11.155 ms
 6  211.137.36.153 (211.137.36.153)  18.184 ms  18.152 ms  18.295 ms
 7  211.137.47.138 (211.137.47.138)  18.039 ms  17.860 ms  18.266 ms
 8  211.137.47.137 (211.137.47.137)  17.862 ms  18.398 ms  18.123 ms
 9  221.183.13.61 (221.183.13.61)  22.798 ms  19.359 ms  19.324 ms
10  * * *
11  221.176.20.18 (221.176.20.18)  40.223 ms  41.361 ms  42.121 ms
12  221.183.15.174 (221.183.15.174)  50.004 ms  50.089 ms  50.594 ms
13  * * *
```

(2)

在ubuntu Linux虚拟机下运行chmod, chown, ls, mkdir, cp, rm, ifconfig

chmod

```
david@ubuntu:~/test$ touch 1.py
david@ubuntu:~/test$ ll
total 8
drwxr-xr-x  2 david david 4096 Mar 26 23:29 ./
drwxr-xr-x 23 david david 4096 Mar 26 23:18 ../
-rw-r--r--  1 david david   0 Mar 26 23:29 1.py
-rw-r--r--  1 david david   0 Mar 26 23:27 1.txt
david@ubuntu:~/test$ chmod a+x 1.py
david@ubuntu:~/test$ ll
total 8
drwxr-xr-x  2 david david 4096 Mar 26 23:29 ./
drwxr-xr-x 23 david david 4096 Mar 26 23:18 ../
-rwxr-xr-x  1 david david   0 Mar 26 23:29 1.py*
-rw-r--r--  1 david david   0 Mar 26 23:27 1.txt
david@ubuntu:~/test$
```

chown

```
david@ubuntu:~/test$ ll
total 8
drwxr-xr-x  2 david david 4096 Mar 26 23:26 ./
drwxr-xr-x 23 david david 4096 Mar 26 23:18 ../
-rw-r--r--  1 david david   0 Mar 26 23:26 1.txt
david@ubuntu:~/test$ sudo chown mail:mail 1.txt
david@ubuntu:~/test$ ll
total 8
drwxr-xr-x  2 david david 4096 Mar 26 23:26 ./
drwxr-xr-x 23 david david 4096 Mar 26 23:18 ../
-rw-r--r--  1 mail  mail   0 Mar 26 23:26 1.txt
```

ls

```
david@ubuntu:~/test$ ls
1.py 1.txt
```

mkdir

```
david@ubuntu:~/test$ ls
1.py 1.txt
david@ubuntu:~/test$ mkdir inner
david@ubuntu:~/test$ ls
1.py 1.txt inner
```

cp

```
david@ubuntu:~/test$ ls
1.py 1.txt inner
david@ubuntu:~/test$ cp 1.txt ./inner/
david@ubuntu:~/test$ ls ./inner/
1.txt
```

rm

```
david@ubuntu:~/test$ ls ./inner/
1.txt
david@ubuntu:~/test$
david@ubuntu:~/test$ rm ./inner/1.txt
david@ubuntu:~/test$ ls ./inner/
```

ifconfig

```
david@ubuntu:~/test$ ifconfig
ens33: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.0.105 netmask 255.255.255.0 broadcast 192.168.0.255
    inet6 fe80::a6b5:d41a:5645:267a prefixlen 64 scopeid 0x20<link>
    ether 00:0c:29:1e:c2:34 txqueuelen 1000 (Ethernet)
    RX packets 1272 bytes 413627 (413.6 KB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 814 bytes 90543 (90.5 KB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
    inet 127.0.0.1 netmask 255.0.0.0
    inet6 ::1 prefixlen 128 scopeid 0x10<host>
    loop txqueuelen 1000 (Local Loopback)
    RX packets 283 bytes 23462 (23.4 KB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 283 bytes 23462 (23.4 KB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```