- 1. 查看当前系统中以"/"为根的文件目录树, 并比较不同系统之间的差异
- 2. 使用 ls 命令列出目录下的文件
- 3. 使用 pwd 命令显示当前目录
- 4. 使用 cd 命令切换目录

```
seven@seven-virtual-machine:~$ ls -al /home

↓ ↓ ↓ 12

drwxr-xr-x 3 root root 4096 8 ↓ 30 13:24 .

drwxr-xr-x 20 root root 4096 8 ↓ 30 13:23 ..

drwxr-x--- 16 seven seven 4096 8 ↓ 30 15:11 seven

seven@seven-virtual-machine:~$ pwd

/home/seven

seven@seven-virtual-machine:~$ cd /etc

seven@seven-virtual-machine:/$ cd ..

seven@seven-virtual-machine:/$ pwd

/

seven@seven-virtual-machine:/$ pwd

/home/seven

seven@seven-virtual-machine:*$ pwd

/home/seven
```

5. 使用 mkdir 命令创建新的目录

```
命主页 × □ Ubuntu ×
seven@seven–virtual–machine:~$ mkdir pmddir
seven@seven–virtual–machine:~$ mkdir pmddir2
seven@seven–virtual–machine:~$ mkdir pmddir3
seven@seven–virtual–machine:~$ mkdir pmddir4
seven@seven–virtual–machine:~$ ls –l
+ + + 48
drwxr–xr–x 2 seven seven 4096  8♦
                                          30 13:34 🔸 🔸
drwxr−xr−x 2 seven seven 4096 8♦
                                          30 13:34
drwxr-xr-x 2 seven seven 4096
                                    8 +
                                          30 13:34
drwxr–xr–x 2 seven seven 4096  8♦
                                          30 13:34
drwxr–xr–x 2 seven seven 4096 8♦
                                          30 13:34
drwxrwxr–x 2 seven seven 4096 9♦
                                           8 19:12 pmdd
                                           8 19:12 pmdd1
                                           8 19:12 pmddir3
                                           8 19:12 pmd
seven@seven–virtual–machine:~$ echo 'hello world' > pmddir/pmdfile
seven@seven–virtual–machine:~$ ls –l pmddir
+ + + 4
-rw−rw−r−− 1 seven seven 12 9♦
                                         8 19:13 pmdfile
seven@seven–virtual–machine:~$
```

6. 使用 rmdir 命令删除空的目录

7. 使用 cp 命令复制文件

```
seven@seven–virtual–machine:~$ rmdir pmddir4
seven@seven–virtual–machine:~$ ls –l

† † † 44

drwxr–xr–x 2 seven seven 4096 8♦
                                  30 13:34 • • •
drwxr–xr–x 2 seven seven 4096 8♦
                                  30 13:34
drwxr–xr–x 2 seven seven 4096 −8♦
                                  30 13:34
drwxr–xr–x 2 seven seven 4096
                              8 +
                                  30 13:34
drwxr-xr-x 2 seven seven 4096
                              8 +
                                  30 13:34
drwxr-xr-x 2 seven seven 4096
                              8♦
                                  30 13:34
                             8*
drwxr–xr–x 2 seven seven 4096
                                  30 13:34
drwxr−xr−x 2 seven seven 4096 -8†
                                  30 13:34 •
                                  8 19:13 omddi
drwxrwxr–x 2 seven seven 4096
                             9+
drwxrwxr∸x 2 seven seven 4096  9♦
                                   8 19:12 pmdd ir
drwxrwxr–x 2 seven seven 4096 9♦
                                  8 19:12
seven@seven–virtual–machine:~$ cp pmddir/pmdfile pmddir2
seven@seven–virtual–machine:~$ ls –l pmddir2
. . . 4
-rw−rw−r-- 1 seven seven 12 9♦
                                 8 19:14 pmdfile
seven@seven–virtual–machine:~$
```

8. 使用 mv 命令移动文件, 修改文件名

9. 使用 rm 命令删除文件

10. 使用 stat 命令显示文件详细信息

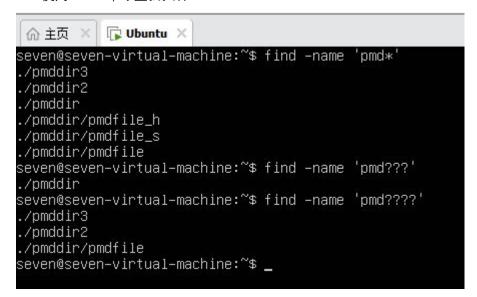
```
seven@seven–virtual–machine:~$ rm pmddir3/pmdfile2
seven@seven–virtual–machine:~$ ls –l pmddir3
seven@seven–virtual–machine:~$ stat pmddir/pmdfile
  ♦ ♦ ♦ pmddir/pmdfile
  + + + 12
                        + + 8
                                        IO ♦ ♦ 4096
 ♦ ♦ 803h/2051d
                        Inode + 535071
                                            + + + + 1
  ♦ ♦ (0664/-rw-rw-r--) Uid♦ ( 1000/
                                                 Gid + ( 1000/
                                        seven)
                                                                 seven)
      ♦ $ 2022-09-08 19:14:24.783618567 +0800

$\ddot 2022-09-08 19:13:01.189766308 +0800

      ♦ $ 2022-09-08 19:13:01.189766308 +0800
    ♦ ♦ $ 2022-09-08 19:13:01.189766308 +0800
seven@seven–virtual–machine:~$
```

11. 使用 In 命令创建链接

12. 使用 find 命令查找文件



13. 使用 diff 命令比较文件

```
seven@seven–virtual–machine:~$ cd pmddir2
seven@seven–virtual–machine:~/pmddir2$ echo –e "111\n222\n333\n444" >f1
seven@seven–virtual–machine:~/pmddir2$ cat f1
111
222
333
444
seven@seven–virtual–machine:~/pmddir2$ echo –e "111\n222\naaa\n444" >f2
seven@seven–virtual–machine:~/pmddir2$ cd ..
seven@seven–virtual–machine:~$ cat pmddir2/f1
111
222
333
444
seven@seven–virtual–machine:~$ cat pmddir2/f2
111
222
aaa
seven@seven–virtual–machine:~$ diff pmddir2/f1 pmddir2/f2
3c3
< 333
seven@seven–virtual–machine:~$
```

14. 使用 tar 命令压缩文件

```
seven@seven–virtual–machine:~$ tar –czvf pmddir.tar.gz pmddir
pmddir/
pmddir/pmdfile_h
pmddir/pmdfile_s
pmddir/pmdfile
seven@seven–virtual–machine:~$ ls –l
+ + + 48
                                    30 13:34 • • •
drwxr–xr–x 2 seven seven 4096
                                8.
drwxr–xr–x 2 seven seven 4096
                                8+
                                    30 13:34
drwxr–xr–x 2 seven seven 4096
                                8+
                                    30 13:34
drwxr–xr–x 2 seven seven 4096
                                8 🛊
                                    30 13:34
drwxr–xr–x 2 seven seven 4096
                                8*
                                    30 13:34
drwxr–xr–x 2 seven seven 4096
                                    30 13:34
                                8+
drwxr–xr–x 2 seven seven 4096
                                8+
                                    30 13:34
drwxr–xr–x 2 seven seven 4096
                                8+
                                    30 13:34
drwxrwxr–x 2 seven seven 4096
                                9+
                                     8 19:21
                                9+
                                     8 19:30
drwxrwxr–x 2 seven seven 4096
drwxrwxr–x 2 seven seven 4096
                                9*
                                     8 19:19
-rw-rw-r-- 1 seven seven 219
                                     8 19:32 pmddir.tar.gz
                                9*
seven@seven–virtual–machine:~$
```

15. 使用 du 命令查看磁盘空间使用情况

```
.cache/vmware/drag_and_drop
12
            ./.cache/vmware
           ./.cache/evolution/mail/trash
./.cache/evolution/mail
           ./.cache/evolution/memos/trash
./.cache/evolution/memos
           ./.cache/evolution/calendar/trash
./.cache/evolution/calendar
            ./.cache/evolution/sources/trash
            ./.cache/evolution/sources
           ./.cache/evolution/tasks/trash
./.cache/evolution/tasks
            ./.cache/evolution/addressbook/trash
           ./.cache/evolution/addressbook
            ./.cache/evolution
           ./.cache/gnome-control-center/wacom
           ./.cache/gnome-control-center
           ./.cache/update-manager-core
           //.cache/ubuntu-report
//.cache/thumbnails/large
//.cache/thumbnails/fail/gnome-thumbnail-factory
//.cache/thumbnails/fail
472
12
488
           ./.cache/thumbnalls
./.cache/gstreamer—1.0
./.cache/ibus—table
./.cache/ibus/libpinyin
./.cache/ibus/bus
./.cache/ibus
./.cache
./ • •
./ • •
           ./.cache/thumbnails
388
28
18180
            ./pmddir2
            ./pmddir
19116
seven@seven–virtual–machine:~$
```

16. 使用 df 命令查看磁盘空间占用情况

```
seven@seven–virtual–machine:~$ df
                                   * * * * *
1824 396504
                      1K-∳
398328
                                               + + + + % + + +
. . . .
tmpfs
                                                          1% /run
                   398328 1824 396504
19946096 10506896 8400660
1991624 0 1991624
5120 4 5116
524252 5364 518888
398324 108 398216
                                                          56% /
/dev/sda3
                                                          0% /dev/shm
tmpfs
                                                        1% /run/lock
2% /boot/efi
1% /run/user/1000
tmpfs
/dev/sda2
tmpfs
/dev/sr0
                     3737140 3737140
                                                0 100% /media/seven/Ubuntu 22.04.1 LTS amd64
seven@seven–virtual–machine:~$
```

17. 使用 fdisk 列出分区

18. 使用 mount、umount 命令挂载、卸载磁盘

```
seven@seven–virtual–machine:/$ sudo su
root@seven–virtual–machine:/# mkdir /mnt/usb
root@seven–virtual–machine:/# mount /dev/sdb1 /mnt/usb
root@seven–virtual–machine:/# ls –l /mnt/usb
drwxrwxrwx 1 root root
                            4096 6#
                                       24 2016
drwxrwxrwx 1 root root
                             4096 8♦
                                       7 22:01
drwxrwxrwx 1 root root
                             4096
                                 6+
                                       24
                                          2016
-rwxrwxrwx 1 root root
                             24
                                  6+
                                       11
                                           2009
                                                autoexec.bat
                             8192
drwxrwxrwx 1 root root
                                  6+
                                       24
                                           2016
                          400228 10♦
                                       30
                                           2015
-rwxrwxrwx 1 root root
                                                bootmgr
                                          2015
-rwxrwxrwx 1 root root
                               1 10 +
                                       30
                                                BOOTNXT
-rwxrwxrwx 1 root root
                             8192 6$
                                       24
                                          2016
                                                BOOTSECT.BAK
                                  6+
                                       11
–rwxrwxrwx 1 root root
                              10
                                          2009
                                                config.sys
-rwxrwxrwx 2 root root
                              282
                                  5+
                                       14
                                           2014
                                                'desktop (2).ini'
                                       25
                              282
                                   7+
                                           2011
-rwxrwxrwx 1 root root
                                                desktop.ini
                                                 IO.SYS
-rwxrwxrwx 1 root root
                                  3+
                                       15
                                           2016
-rwxrwxrwx 1 root root
                                  3♦
                                       15
                                           2016
                                                 MSDOS.SYS
-rwxrwxrwx 1 root root 2893651968
                                       24
                                                 pagefile.sys
                                  6+
                                           2016
drwxrwxrwx 1 root root
                           12288
                                  6+
                                       24
                                           2016
                           20480 10+
drwxrwxrwx 1 root root
                                       15
                                           2020
-rwxrwxrwx 1 root root
                          229339 5$
                                       31
                                          2012
                                                 PSUVD
                               0 5 +
drwxrwxrwx 1 root root
                                       31
                                          2012
                            4096 6$
                                       25 2016
drwxrwxrwx 1 root root
                           32768 6♦
                                       5 17:53
drwxrwxrwx 1 root root
root@seven–virtual–machine:/# umount /mnt/usb
root@seven–virtual–machine:/# ls –l /mnt/usb
+ + + 0
root@seven–virtual–machine:/#
```