（1）Directory Operation


```
zbh@zbh-virtual-machine:~$ pwd
/home/zbh
zbh@zbh-virtual-machine:~$ cd ~
zbh@zbh-virtual-machine:~$ pwd
/home/zbh
zbh@zbh-virtual-machine:~$ bash
zbh@zbh-virtual-machine:~$ ls
公共的  视频  文档  音乐  bits.c        datalab-handout.tar  lab4.doc  Test
模板    图片  下载  桌面  datalab-handout  lab3.doc              snap
zbh@zbh-virtual-machine:~$ cd Test
zbh@zbh-virtual-machine:~/Test$ cd ~
zbh@zbh-virtual-machine:~$ mkdir B22012623
zbh@zbh-virtual-machine:~$ cd B22012623
zbh@zbh-virtual-machine:~/B22012623$ mkdir 郑博涵
zbh@zbh-virtual-machine:~/B22012623$ ls
郑博涵
zbh@zbh-virtual-machine:~/B22012623$ rmdir 郑博涵
zbh@zbh-virtual-machine:~/B22012623$ ls
zbh@zbh-virtual-machine:~/B22012623$ mkdir zbhzbh
zbh@zbh-virtual-machine:~/B22012623$ cd zbhzbh
zbh@zbh-virtual-machine:~/B22012623/zbhzbh$ cd ~
zbh@zbh-virtual-machine:~$
```

(2) File operation


```
zbh@zbh-virtual-machine:~/B22012623/zbhzbh$ cd ~
zbh@zbh-virtual-machine:~$ cd B22012623
zbh@zbh-virtual-machine:~/B22012623$ touch zbh.txt
zbh@zbh-virtual-machine:~/B22012623$ ls
zbh.txt  zbhzbh
zbh@zbh-virtual-machine:~/B22012623$ echo "hello world" > zbh.txt
zbh@zbh-virtual-machine:~/B22012623$ cat zbh.txt
hello world
zbh@zbh-virtual-machine:~/B22012623$ cp zbh.txt zbh2.txt
zbh@zbh-virtual-machine:~/B22012623$ mv zbh.txt B22012623.txt
zbh@zbh-virtual-machine:~/B22012623$ ls
B22012623.txt  zbh2.txt  zbhzbh
zbh@zbh-virtual-machine:~/B22012623$
```

(3)User Management

(4) Permission management

```
B22012623@zbh-virtual-machine:~$ vim demo.txt
B22012623@zbh-virtual-machine:~$ grep '^n' textfile
grep: textfile: 没有那个文件或目录
B22012623@zbh-virtual-machine:~$ grep '^n' demo.txt
no, I study in njupt.
B22012623@zbh-virtual-machine:~$ grep '\.00$' demo.txt
this line ends with .00
He is 15. It is 16.00
B22012623@zbh-virtual-machine:~$ grep '5\..' demo.txt
He is 15. It is 16.00
B22012623@zbh-virtual-machine:~$ grep '^[wy]' demo.txt
wy is the short of my name.
B22012623@zbh-virtual-machine:~$
```

```
B22012623@zbh-virtual-machine:~/others$ tar -czvf backup.tar.gz others
tar: others: 无法 stat: 没有那个文件或目录
tar: 由于前次错误，将以上次的错误状态退出
B22012623@zbh-virtual-machine:~/others$ cd ./..
B22012623@zbh-virtual-machine:~$ tar -czvf backup.tar.gz others
others/
others/a.txt
others/b.txt
others/backup.tar.gz
B22012623@zbh-virtual-machine:~$ ls -l
总计 8
-rw-r--r-- 1 B22012623 student  255 10月 14 10:20 backup.tar.gz
-r-srwS--T 1 B22012623 student    0 10月 14 10:15 demo
drwxr-xr-x 2 B22012623 student 4096 10月 14 10:20 others
B22012623@zbh-virtual-machine:~$ tar -xzvf backup.tar.gz
others/
others/a.txt
others/b.txt
others/backup.tar.gz
B22012623@zbh-virtual-machine:~$ ls -l
总计 8
-rw-r--r-- 1 B22012623 student  255 10月 14 10:20 backup.tar.gz
-r-srwS--T 1 B22012623 student    0 10月 14 10:15 demo
drwxr-xr-x 2 B22012623 student 4096 10月 14 10:20 others
B22012623@zbh-virtual-machine:~$
```