

(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

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正在添加新用户"B22012623" (1002) 到组"B22012623"...
创建主目录"/home/B22012623"...
正在从"/etc/skel"复制文件...
新的密码:
无效的密码: 密码未通过字典检查 - ???????????/?????????
重新输入新的密码:
passwd: 已成功更新密码
正在改变 B22012623 的用户信息
请输入新值, 或直接敲回车键以使用默认值
    全名 []:
    房间号码 []:
    工作电话 []:
    家庭电话 []:
    其它 []:
这些信息是否正确? [Y/n] Y
root@zbh-virtual-machine:/home/zbh/B22012623# usermod -g student B22012623
root@zbh-virtual-machine:/home/zbh/B22012623# su B22012623
B22012623@zbh-virtual-machine:/home/zbh/B22012623$ cd ~
B22012623@zbh-virtual-machine:~$ touch zbh.txt
B22012623@zbh-virtual-machine:~$ -l
-l: 未找到命令
B22012623@zbh-virtual-machine:~$ ls -l
总计 0
-rw-r--r-- 1 B22012623 student 0 10月 14 10:13 zbh.txt
B22012623@zbh-virtual-machine:~$

```

(4) Permission management

```

B22012623@zbh-virtual-machine:~$ chmod g+w demo
B22012623@zbh-virtual-machine:~$ ls -l
总计 0
-rw-rw-r-- 1 B22012623 student 0 10月 14 10:15 demo
B22012623@zbh-virtual-machine:~$ chmod a= demo
B22012623@zbh-virtual-machine:~$ ls -l
总计 0
----- 1 B22012623 student 0 10月 14 10:15 demo
B22012623@zbh-virtual-machine:~$ chmod +t demo
B22012623@zbh-virtual-machine:~$ ls -l
总计 0
-----T 1 B22012623 student 0 10月 14 10:15 demo
B22012623@zbh-virtual-machine:~$ chmod u+s demo
B22012623@zbh-virtual-machine:~$ ls -l
总计 0
---S-----T 1 B22012623 student 0 10月 14 10:15 demo
B22012623@zbh-virtual-machine:~$ chmod u+rx demo
B22012623@zbh-virtual-machine:~$ ls -l
总计 0
-r-s-----T 1 B22012623 student 0 10月 14 10:15 demo
B22012623@zbh-virtual-machine:~$ chmod g+rws demo
B22012623@zbh-virtual-machine:~$ ls -l
总计 0
-r-srws---T 1 B22012623 student 0 10月 14 10:15 demo
B22012623@zbh-virtual-machine:~$

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```
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:~$
```