

(1) Directory Operation

```
hsh@hsh-virtual-machine:~$ pwd
/home/hsh
hsh@hsh-virtual-machine:~$ cd ~
hsh@hsh-virtual-machine:~$ mkdir B22040504
hsh@hsh-virtual-machine:~$ cd B22040504
hsh@hsh-virtual-machine:~/B22040504$ mkdir huangshuhan
hsh@hsh-virtual-machine:~/B22040504$ ls
huangshuhan
hsh@hsh-virtual-machine:~/B22040504$ rmdir huangshuhan
hsh@hsh-virtual-machine:~/B22040504$ ls
hsh@hsh-virtual-machine:~/B22040504$
```

(2) File operation

```
hsh@hsh-virtual-machine:~/B22040504$ cd ~
hsh@hsh-virtual-machine:~$ touch huangshuhan.txt
hsh@hsh-virtual-machine:~$ ls
公共的 模板 视频 图片 文档 下载 音乐 桌面 B22040504 bomb517 bomb517.tar huangshuhan.txt
hsh@hsh-virtual-machine:~$ echo "hello world" > huangshuhan.txt
hsh@hsh-virtual-machine:~$ cat huangshuhan.txt
hello world
hsh@hsh-virtual-machine:~$ cp huangshuhan.txt huangshuhan2.txt
hsh@hsh-virtual-machine:~$ mv huangshuhan.txt b22040504.txt
hsh@hsh-virtual-machine:~$ ls
公共的 视频 文档 音乐 B22040504 bomb517 huangshuhan2.txt
模板 图片 下载 桌面 b22040504.txt bomb517.tar snap
hsh@hsh-virtual-machine:~$
```

(3) User Management

```
hsh@hsh-virtual-machine:~$ whoami
hsh
hsh@hsh-virtual-machine:~$ sudo su root
root@hsh-virtual-machine:/home/hsh# groupadd student
root@hsh-virtual-machine:/home/hsh# whoami
root
root@hsh-virtual-machine:/home/hsh# adduser b22040504
正在添加用户"b22040504"...
正在添加新组"b22040504" (1002)...
正在添加新用户"b22040504" (1001) 到组"b22040504"...
创建主目录"/home/b22040504"...
正在从"/etc/skel"复制文件...
新的密码:
重新输入新的密码:
passwd: 已成功更新密码
正在改变 b22040504 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 []:
```

```
    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@hsh-virtual-machine:/home/hsh# usermod -g student b22040504
root@hsh-virtual-machine:/home/hsh# su b22040504
b22040504@hsh-virtual-machine:/home/hsh$ cd ~
b22040504@hsh-virtual-machine:~$ touch huangshuhan.txt
b22040504@hsh-virtual-machine:~$ ls -l
总计 0
-rw-r--r-- 1 b22040504 student 0 10月 14 10:43 huangshuhan.txt
```

(4) Permission management

```
b22040504@hsh-virtual-machine:~$ touch demo
b22040504@hsh-virtual-machine:~$ chmod 777 demo
b22040504@hsh-virtual-machine:~$ chmod a-x demo
b22040504@hsh-virtual-machine:~$ chmod go-w demo
b22040504@hsh-virtual-machine:~$ chmod g+w demo
b22040504@hsh-virtual-machine:~$ chmod a= demo
b22040504@hsh-virtual-machine:~$ chmod +t demo
b22040504@hsh-virtual-machine:~$ chmod u+s demo
```

```

b22040504@hsh-virtual-machine:~$ chmod +t demo
b22040504@hsh-virtual-machine:~$ chmod u+s demo
b22040504@hsh-virtual-machine:~$ chmod u+rx demo
b22040504@hsh-virtual-machine:~$ chmod g+rws demo
b22040504@hsh-virtual-machine:~$ ls -l demo
-r-srws--T 1 b22040504 student 0 10月 14 10:50 demo

```

(5) Other management

```

b22040504@hsh-virtual-machine:~$ mkdir others
b22040504@hsh-virtual-machine:~$ ls
backup.tar.gz  demo  huangshuhan.txt  others
b22040504@hsh-virtual-machine:~$ cd
b22040504@hsh-virtual-machine:~$ cd others

```

```

b22040504@hsh-virtual-machine:~/others$ touch num1.txt
b22040504@hsh-virtual-machine:~/others$ touch num2.txt
b22040504@hsh-virtual-machine:~/others$ cd ..
b22040504@hsh-virtual-machine:~$ tar -czvf backup.tar.gz others
others/
others/backup.tar.gz
others/num2.txt
others/num1.txt
b22040504@hsh-virtual-machine:~$ ls -l
总计 8
-rw-r--r-- 1 b22040504 student 261 10月 14 11:08 backup.tar.gz
-r-srws--T 1 b22040504 student 0 10月 14 10:50 demo
-rw-r--r-- 1 b22040504 student 0 10月 14 10:43 huangshuhan.txt
drwxr-xr-x 2 b22040504 student 4096 10月 14 11:05 others
b22040504@hsh-virtual-machine:~$ tar -xzvf backup.tar.gz
others/
others/backup.tar.gz
others/num2.txt
others/num1.txt

```

```
b22040504@hsh-virtual-machine:~$ tar -xvzf backup.tar.gz
others/
others/backup.tar.gz
others/num2.txt
others/num1.txt
b22040504@hsh-virtual-machine:~$ ls -l
总计 8
-rw-r--r-- 1 b22040504 student 261 10月 14 11:08 backup.tar.gz
-r-srwS--T 1 b22040504 student 0 10月 14 10:50 demo
-rw-r--r-- 1 b22040504 student 0 10月 14 10:43 huangshuhan.txt
drwxr-xr-x 2 b22040504 student 4096 10月 14 11:05 others
b22040504@hsh-virtual-machine:~$ vim 123.txt
b22040504@hsh-virtual-machine:~$ cat 123.txt
no,I study in njupt.
this line ends with 00
this line ends with .00
I am 25 years old.
He is 15.It is 16.00
wy is the short of my name.
```

```
b22040504@hsh-virtual-machine:~$ grep '^n' 123.txt
no,I study in njupt.
b22040504@hsh-virtual-machine:~$ grep '\.00$' 123.txt
this line ends with .00
He is 15.It is 16.00
b22040504@hsh-virtual-machine:~$ grep '5\.. ' 123.txt
He is 15.It is 16.00
b22040504@hsh-virtual-machine:~$ grep '^[wy]' 123.txt
wy is the short of my name.
b22040504@hsh-virtual-machine:~$
```