（1）Directory Operation

(2) File operation

(3)User Management

```
talys@talys-virtual-machine:~$ whoami
talys
talys@talys-virtual-machine:~$ sudo su root
[sudo] talys 的密码：
root@talys-virtual-machine:/home/talys# groupadd student
root@talys-virtual-machine:/home/talys# whoami
root
root@talys-virtual-machine:/home/talys# adduser B22040812
adduser: 请输入匹配 NAME_REGEX[_SYSTEM] 配置选项配置的正则表达式的用户名。
使用 `--force-badname' 选项可以放松检查或者重新配置 NAME_REGEX。
root@talys-virtual-machine:/home/talys# adduser B22040812 --force-badname
允许使用可疑的用户名。
正在添加用户"B22040812"...
正在添加新组"B22040812" (1002)...
正在添加新用户"B22040812" (1001) 到组"B22040812"...
创建主目录"/home/B22040812"...
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 B22040812 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 []: xdx
        房间号码 []: 0812
        工作电话 []:
        家庭电话 []:
        其它 []:
这些信息是否正确？ [Y/n] y
```

```
root@talys-virtual-machine:/home/talys# usermod -g student B22040812
root@talys-virtual-machine:/home/talys# su B22040812
B22040812@talys-virtual-machine:/home/talys$ cd ~
B22040812@talys-virtual-machine:~$ touch 肖敦行.txt
B22040812@talys-virtual-machine:~$ ls -l
总计 0
-rw-r--r-- 1 B22040812 student 0 10月 14 10:10 肖敦行.txt
```

(4) Permission management

```
B22040812@talys-virtual-machine:~$ touch demo
B22040812@talys-virtual-machine:~$ chmod 777 demo
B22040812@talys-virtual-machine:~$ ls -l demo
-rwxrwxrwx 1 B22040812 student 0 10月 14 10:19 demo
B22040812@talys-virtual-machine:~$ chmod a-x demo
B22040812@talys-virtual-machine:~$ ls -l demo
-rw-rw-rw- 1 B22040812 student 0 10月 14 10:19 demo
B22040812@talys-virtual-machine:~$ chmod go-w demo
B22040812@talys-virtual-machine:~$ ls -l demo
-rw-r--r-- 1 B22040812 student 0 10月 14 10:19 demo
B22040812@talys-virtual-machine:~$ chmod g+w demo
B22040812@talys-virtual-machine:~$ ls -l demo
-rw-rw-r-- 1 B22040812 student 0 10月 14 10:19 demo
B22040812@talys-virtual-machine:~$ chmod a= demo
B22040812@talys-virtual-machine:~$ ls -l demo
--------- 1 B22040812 student 0 10月 14 10:19 demo
B22040812@talys-virtual-machine:~$ chmod +t demo
B22040812@talys-virtual-machine:~$ ls -l demo
---------T 1 B22040812 student 0 10月 14 10:19 demo
B22040812@talys-virtual-machine:~$ chmod u+s demo
B22040812@talys-virtual-machine:~$ ls -l demo
---S-----T 1 B22040812 student 0 10月 14 10:19 demo
B22040812@talys-virtual-machine:~$ chmod u+rx demo
B22040812@talys-virtual-machine:~$ ls -l demo
-r-s-----T 1 B22040812 student 0 10月 14 10:19 demo
B22040812@talys-virtual-machine:~$ chmod g+rws demo
B22040812@talys-virtual-machine:~$ ls -l demo
-r-srwS--T 1 B22040812 student 0 10月 14 10:19 demo
```

(5) Other management

```
B22040812@talys-virtual-machine:~$ mkdir others
B22040812@talys-virtual-machine:~$ cd others
B22040812@talys-virtual-machine:~/others$ touch 1.txt 2.txt
B22040812@talys-virtual-machine:~/others$ ls
1.txt  2.txt
B22040812@talys-virtual-machine:~/others$ cd ~
B22040812@talys-virtual-machine:~$ tar -czvf backup.tar.gz others
others/
others/2.txt
others/1.txt
B22040812@talys-virtual-machine:~$ ls -l
总计 8
-rw-r--r-- 1 B22040812 student    0 10月 14 10:10 肖敦行.txt
-rw-r--r-- 1 B22040812 student  158 10月 14 10:33 backup.tar.gz
-r-srwS--T 1 B22040812 student    0 10月 14 10:19 demo
drwxr-xr-x 2 B22040812 student 4096 10月 14 10:33 others
B22040812@talys-virtual-machine:~$ tar -xzvf backup.tar.gz
others/
others/2.txt
others/1.txt
B22040812@talys-virtual-machine:~$ ls -l
总计 8
-rw-r--r-- 1 B22040812 student    0 10月 14 10:10 肖敦行.txt
-rw-r--r-- 1 B22040812 student  158 10月 14 10:33 backup.tar.gz
-r-srwS--T 1 B22040812 student    0 10月 14 10:19 demo
drwxr-xr-x 2 B22040812 student 4096 10月 14 10:33 others
```

```
B22040812@talys-virtual-machine:~$ ls
肖敦行.txt  backup.tar.gz  demo  others  text.txt
B22040812@talys-virtual-machine:~$ grep '^n' text.txt
no, I study in njupt.
B22040812@talys-virtual-machine:~$ grep '\.00$' text.txt
this line ends with .00
He is 15. It is 16.00
B22040812@talys-virtual-machine:~$ grep '5\..' text.txt
He is 15. It is 16.00
B22040812@talys-virtual-machine:~$ grep '^[wy]' text.txt
wy is the short of my name.
```