

## (1) Directory Operation

```
ubuntu@ubuntu:~/Documents$ pwd
/home/ubuntu/Documents
ubuntu@ubuntu:~/Documents$ mkdir b21050224
ubuntu@ubuntu:~/Documents$ cd b21050224
ubuntu@ubuntu:~/Documents/b21050224$ mkdir b21050224yhr
ubuntu@ubuntu:~/Documents/b21050224$ ls
b21050224yhr
ubuntu@ubuntu:~/Documents/b21050224$ rmdir b21050224yhr
ubuntu@ubuntu:~/Documents/b21050224$ ls
```

## (2) File operation

```
ubuntu@ubuntu:~/Documents/b21050224$ touch b21050224yhr.txt
ubuntu@ubuntu:~/Documents/b21050224$ ls
b21050224yhr.txt
```

```
ubuntu@ubuntu:~/Documents/b21050224$ echo "hello world" > b21050224yhr.txt
ubuntu@ubuntu:~/Documents/b21050224$ cat b21050224yhr.txt
hello world
```

```
ubuntu@ubuntu:~/Documents/b21050224$ cp b21050224yhr.txt b21050224yhr2.txt
ubuntu@ubuntu:~/Documents/b21050224$ ls
b21050224.txt b21050224yhr.txt b21050224yhr2.txt
ubuntu@ubuntu:~/Documents/b21050224$
```

## (3) User Management

```
ubuntu@ubuntu:~/Documents/b21050224$ whoami
ubuntu
ubuntu@ubuntu:~/Documents/b21050224$ sudo su root
root@ubuntu:/home/ubuntu/Documents/b21050224#
root@ubuntu:/home/ubuntu/Documents/b21050224# groupadd student
root@ubuntu:/home/ubuntu/Documents/b21050224# whoami
root
root@ubuntu:/home/ubuntu/Documents/b21050224# adduser b21050224
info: Adding user `b21050224' ...
info: Selecting UID/GID from range 1000 to 59999 ...
info: Adding new group `b21050224' (1003) ...
info: Adding new user `b21050224' (1003) with group `b21050224 (1003)' ...
info: Creating home directory `/home/b21050224' ...
info: Copying files from `/etc/skel' ...
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
passwd: password updated successfully
Changing the user information for b21050224

root@ubuntu:/home/ubuntu/Documents/b21050224# usermod -g student b21050224
root@ubuntu:/home/ubuntu/Documents/b21050224# su b21050224
b21050224@ubuntu:/home/ubuntu/Documents/b21050224$ touch b21050224yhr.txt
```

```
b21050224@ubuntu:/home/ubuntu/Documents/b21050224$ ls -l
total 12
-rw-rw-r-- 1 ubuntu ubuntu 12 Dec 13 08:37 b21050224.txt
-rw-rw-r-- 1 ubuntu ubuntu 12 Dec 13 08:39 b21050224yhr.txt
-rw-rw-r-- 1 ubuntu ubuntu 12 Dec 13 08:40 b21050224yhr2.txt
```

#### (4) Permission management

```
b21050224@ubuntu:/home/ubuntu/Documents/b21050224$ cd
b21050224@ubuntu:~$ touch demo
b21050224@ubuntu:~$ chmod 777 demo
b21050224@ubuntu:~$ chmod a-x demo
b21050224@ubuntu:~$ chmod go-w demo
b21050224@ubuntu:~$ chmod g+w demo
b21050224@ubuntu:~$ chmod a= demo
b21050224@ubuntu:~$ chmod +t demo
b21050224@ubuntu:~$ chmod u+s demo
b21050224@ubuntu:~$ chmod u+rx demo
b21050224@ubuntu:~$ chmod g+rws demo
b21050224@ubuntu:~$ ls -l demo
-r-srws--T 1 b21050224 student 0 Dec 13 08:49 demo
```

#### (5) Other management

```
b21050224@ubuntu:~$ touch others
b21050224@ubuntu:~$ tar -czvf backup.tar.gz others
others
b21050224@ubuntu:~$ ls -l
total 4
-rw-r--r-- 1 b21050224 student 122 Dec 13 08:52 backup.tar.gz
-r-srws--T 1 b21050224 student 0 Dec 13 08:49 demo
-rw-r--r-- 1 b21050224 student 0 Dec 13 08:52 others
b21050224@ubuntu:~$ tar -xzvf backup.tar.gz
others
b21050224@ubuntu:~$ ls -l
total 4
-rw-r--r-- 1 b21050224 student 122 Dec 13 08:52 backup.tar.gz
-r-srws--T 1 b21050224 student 0 Dec 13 08:49 demo
-rw-r--r-- 1 b21050224 student 0 Dec 13 08:52 others
b21050224@ubuntu:~$
```