

(1) Directory Operation

```
b22040519ty@lanyy-virtual-machine:~$ pwd
/home/b22040519ty
b22040519ty@lanyy-virtual-machine:~$ cd -
b22040519ty@lanyy-virtual-machine:~$ mkdir b22040519
b22040519ty@lanyy-virtual-machine:~$ cd b22040519
b22040519ty@lanyy-virtual-machine:~/b22040519$ mkdir 姚天宇
b22040519ty@lanyy-virtual-machine:~/b22040519$ ls
姚天宇
b22040519ty@lanyy-virtual-machine:~/b22040519$ rmdir 姚天宇
b22040519ty@lanyy-virtual-machine:~/b22040519$ ls
```

(2) File operation

```
b22040519ty@lanyy-virtual-machine:~/b22040519$ cd -
b22040519ty@lanyy-virtual-machine:~$ touch 姚天宇.txt
b22040519ty@lanyy-virtual-machine:~$ ls
公共 模板 视频 图片 文档 下载 姚天宇.txt 音乐 桌面 b22040519 snap
b22040519ty@lanyy-virtual-machine:~$ echo "hello world" > 姚天宇.txt
b22040519ty@lanyy-virtual-machine:~$ cat 姚天宇.txt
hello world
b22040519ty@lanyy-virtual-machine:~$ cp 姚天宇.txt 姚天宇2.txt
b22040519ty@lanyy-virtual-machine:~$ mv 姚天宇.txt b22040519.txt
b22040519ty@lanyy-virtual-machine:~$ ls
公共 视频 文档 姚天宇2.txt 桌面 b22040519.txt
模板 图片 下载 音乐 b22040519 snap
```

(3) User Management

```
b22040519ty@lanyy-virtual-machine:~$ whoami
b22040519ty
b22040519ty@lanyy-virtual-machine:~$ sudo su root
[sudo] b22040519ty 的密码:

root@lanyy-virtual-machine:/home/b22040519ty# groupadd student
root@lanyy-virtual-machine:/home/b22040519ty# whoami
root
root@lanyy-virtual-machine:/home/b22040519ty# adduser b22040519
info: 正在添加用户 "b22040519"...
info: 从 1000 到 59999 中选择 UID/GID...
info: 正在添加新组 "b22040519" (1007)...
info: 正在添加新用户 "b22040519" (1007) 到组 "b22040519 (1007)"...
info: 创建主目录 "/home/b22040519"...
info: 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 b22040519 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]
info: 正在添加新用户 "b22040519" 到附加组 "users" ...
info: 正在添加用户 "b22040519" 到 "users" 组...
root@lanyy-virtual-machine:/home/b22040519ty# usermod -g student 22040519
usermod: 用户 "22040519" 不存在
root@lanyy-virtual-machine:/home/b22040519ty# usermod -g student b22040519
```

```

root@lanyy-virtual-machine:/home/b22040519yty# su b22040519
b22040519@lanyy-virtual-machine:/home/b22040519yty$ cd ~
b22040519@lanyy-virtual-machine:~$ touch 姚天宇.txt
b22040519@lanyy-virtual-machine:~$ ls -l
总计 0
-rw-r--r-- 1 b22040519 student 0 12月  2 19:14 姚天宇.txt

```

(4) Permission management

```

b22040519@lanyy-virtual-machine:~$ touch demo
b22040519@lanyy-virtual-machine:~$ chmod 777 demo
b22040519@lanyy-virtual-machine:~$ chmod a-x demo
b22040519@lanyy-virtual-machine:~$ chmod go-w demo
找不到命令“chmod”，您的意思是：
“chmod”命令来自 Debian 软件包 coreutils (9.4-2ubuntu2)
尝试 apt install <deb name>
b22040519@lanyy-virtual-machine:~$ chmod go-w demo
b22040519@lanyy-virtual-machine:~$ chmod g+w demo
b22040519@lanyy-virtual-machine:~$ chmod a= demo
b22040519@lanyy-virtual-machine:~$ chmod +t demo
b22040519@lanyy-virtual-machine:~$ chmod u+s demo
b22040519@lanyy-virtual-machine:~$ chmod u+rx demo
b22040519@lanyy-virtual-machine:~$ chmod g+rws demo
找不到命令“chmod”，您的意思是：
“chmod”命令来自 Debian 软件包 coreutils (9.4-2ubuntu2)
尝试 apt install <deb name>
b22040519@lanyy-virtual-machine:~$ chmod g+rws demo
b22040519@lanyy-virtual-machine:~$ ls -l demo
-r-srws--T 1 b22040519 student 0 12月  2 19:16 demo

```

(5) Other management

```

b22040519yty@lanyy-virtual-machine:~$ mkdir others
b22040519yty@lanyy-virtual-machine:~$ cd others
b22040519yty@lanyy-virtual-machine:~/others$ touch 1
b22040519yty@lanyy-virtual-machine:~/others$ touch 2
b22040519yty@lanyy-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
b22040519yty@lanyy-virtual-machine:~/others$ ls -l
总计 4
-rw-rw-r-- 1 b22040519yty b22040519yty  0 12月  2 19:30 1
-rw-rw-r-- 1 b22040519yty b22040519yty  0 12月  2 19:30 2
-rw-rw-r-- 1 b22040519yty b22040519yty 45 12月  2 19:30 backup.tar.gz
b22040519yty@lanyy-virtual-machine:~/others$ tar -xzvf backup.tar.gz
b22040519yty@lanyy-virtual-machine:~/others$ ls -l
总计 4
-rw-rw-r-- 1 b22040519yty b22040519yty  0 12月  2 19:30 1
-rw-rw-r-- 1 b22040519yty b22040519yty  0 12月  2 19:30 2
-rw-rw-r-- 1 b22040519yty b22040519yty 45 12月  2 19:30 backup.tar.gz

b22040519yty@lanyy-virtual-machine:~/others$ touch test.txt
b22040519yty@lanyy-virtual-machine:~/others$ vim test.txt

b22040519yty@lanyy-virtual-machine:~/others$ grep '^n' test.txt
b22040519yty@lanyy-virtual-machine:~/others$ grep '\.00$' test.txt
this line ends with .00
He is 15. It is 16.00

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```
b22040519ty@lanyy-virtual-machine:~/others$ grep '5\..' test.txt
He is 15. It is 16.00
b22040519ty@lanyy-virtual-machine:~/others$ grep '^[wy]' test.txt
```