

## B22140827徐昊岩 linux实验一

```
waterbucket@waterbucket-la X + v
Welcome to Ubuntu 22.04.3 LTS (GNU/Linux 5.15.153.1-microsoft-standard-WSL2 x86_64)

* Documentation:  https://help.ubuntu.com
* Management:    https://landscape.canonical.com
* Support:       https://ubuntu.com/advantage

This message is shown once a day. To disable it please create the
/home/waterbucket/.hushlogin file.
waterbucket@waterbucket-laptop:~$ pwd
/home/waterbucket
waterbucket@waterbucket-laptop:~$ cd ~
waterbucket@waterbucket-laptop:~$ mkdir B22140827
waterbucket@waterbucket-laptop:~$ cd B22140827
waterbucket@waterbucket-laptop:~/B22140827$ mkdir Haoyan Xu
waterbucket@waterbucket-laptop:~/B22140827$ ls
Haoyan Xu
waterbucket@waterbucket-laptop:~/B22140827$ rmdir Haoyan Xu
waterbucket@waterbucket-laptop:~/B22140827$ ls
waterbucket@waterbucket-laptop:~/B22140827$
```

```
waterbucket@waterbucket-la X + v
waterbucket@waterbucket-laptop:~/B22140827$ cd ~
waterbucket@waterbucket-laptop:~$ touch HaoyanXu.txt
waterbucket@waterbucket-laptop:~$ ls
1.sh 4.sh HaoyanXu.txt dump.rdb linklab mstore.c
1.txt 5.sh bomb401 hellolinux.txt linklab.tar mstore.o
2.sh 6.sh bomb401.tar index.html linklab.tar:Zone.Identifier mstore.s
3.sh B22140827 bomb401.tar:Zone.Identifier king2 main.c prog
waterbucket@waterbucket-laptop:~$ echo "hello world" > HaoyanXu.txt
waterbucket@waterbucket-laptop:~$ cat HaoyanXu.txt
hello world
waterbucket@waterbucket-laptop:~$ cp HaoyanXu.txt HaoyanXu2.txt
waterbucket@waterbucket-laptop:~$ mv HaoyanXu.txt B22140827.txt
waterbucket@waterbucket-laptop:~$ ls
1.sh 4.sh B22140827.txt bomb401.tar:Zone.Identifier king2 main.c prog
1.txt 5.sh HaoyanXu2.txt dump.rdb linklab mstore.c
2.sh 6.sh bomb401 hellolinux.txt linklab.tar mstore.o
3.sh B22140827 bomb401.tar index.html linklab.tar:Zone.Identifier mstore.s
waterbucket@waterbucket-laptop:~$
```

```
root@waterbucket-laptop:/h X + v
waterbucket@waterbucket-laptop:~$ whoami
waterbucket
waterbucket@waterbucket-laptop:~$ sudo su root
[sudo] password for waterbucket:
root@waterbucket-laptop:/home/waterbucket# groupadd student
root@waterbucket-laptop:/home/waterbucket# whoami
root
root@waterbucket-laptop:/home/waterbucket# adduser B22140827
adduser: Please enter a username matching the regular expression configured
via the NAME_REGEX[_SYSTEM] configuration variable. Use the '--force-badname'
option to relax this check or reconfigure NAME_REGEX.
root@waterbucket-laptop:/home/waterbucket# --force-badname
--force-badname: command not found
root@waterbucket-laptop:/home/waterbucket# adduser B22140827 --force-badname
Allowing use of questionable username.
Adding user `B22140827' ...
Adding new group `B22140827' (1004) ...
Adding new user `B22140827' (1002) with group `B22140827' ...
Creating home directory `/home/B22140827' ...
Copying files from `/etc/skel' ...
New password:
Retype new password:
passwd: password updated successfully
Changing the user information for B22140827
Enter the new value, or press ENTER for the default
Full Name []:
Room Number []:
Work Phone []:
Home Phone []:
Other []:
Is the information correct? [Y/n]
root@waterbucket-laptop:/home/waterbucket# usermod -g student B22140827
root@waterbucket-laptop:/home/waterbucket#
```

```
B22140827@waterbucket-lap1 x + v
waterbucket@waterbucket-laptop:~$ sudo su root
[sudo] password for waterbucket:
root@waterbucket-laptop:/home/waterbucket# groupadd student
root@waterbucket-laptop:/home/waterbucket# whoami
root
root@waterbucket-laptop:/home/waterbucket# adduser B22140827
adduser: Please enter a username matching the regular expression configured
via the NAME_REGEX[_SYSTEM] configuration variable. Use the '--force-badname'
option to relax this check or reconfigure NAME_REGEX.
root@waterbucket-laptop:/home/waterbucket# --force-badname
--force-badname: command not found
root@waterbucket-laptop:/home/waterbucket# adduser B22140827 --force-badname
Allowing use of questionable username.
Adding user `B22140827' ...
Adding new group `B22140827' (1004) ...
Adding new user `B22140827' (1002) with group `B22140827' ...
Creating home directory `/home/B22140827' ...
Copying files from `/etc/skel' ...
New password:
Retype new password:
passwd: password updated successfully
Changing the user information for B22140827
Enter the new value, or press ENTER for the default
    Full Name []:
    Room Number []:
    Work Phone []:
    Home Phone []:
    Other []:
Is the information correct? [Y/n]
root@waterbucket-laptop:/home/waterbucket# usermod -g student B22140827
root@waterbucket-laptop:/home/waterbucket# su B22140827
B22140827@waterbucket-laptop:/home/waterbucket$ cd ~
B22140827@waterbucket-laptop:~$ touch HaoyanXu.txt
B22140827@waterbucket-laptop:~$ ls -l
total 0
-rw-r--r-- 1 B22140827 student 0 Oct 14 10:07 HaoyanXu.txt
B22140827@waterbucket-laptop:~$
```

```
B22140827@waterbucket-lap1 x + v
B22140827@waterbucket-laptop:~$ touch demo
B22140827@waterbucket-laptop:~$ ls -l demo
-rw-r--r-- 1 B22140827 student 0 Oct 14 10:10 demo
B22140827@waterbucket-laptop:~$ chmod 777 demo
B22140827@waterbucket-laptop:~$ ls -l demo
-rwxrwxrwx 1 B22140827 student 0 Oct 14 10:10 demo
B22140827@waterbucket-laptop:~$ chmod a-x demo
B22140827@waterbucket-laptop:~$ ls -l demo
-rw-rw-rw- 1 B22140827 student 0 Oct 14 10:10 demo
B22140827@waterbucket-laptop:~$ chmod go-w demo
B22140827@waterbucket-laptop:~$ ls -l demo
-rw-r--r-- 1 B22140827 student 0 Oct 14 10:10 demo
B22140827@waterbucket-laptop:~$ chmod g+w demo
B22140827@waterbucket-laptop:~$ ls -l demo
-rw-rw-r-- 1 B22140827 student 0 Oct 14 10:10 demo
B22140827@waterbucket-laptop:~$ chmod a= demo
B22140827@waterbucket-laptop:~$ ls -l demo
----- 1 B22140827 student 0 Oct 14 10:10 demo
B22140827@waterbucket-laptop:~$ chmod +t demo
B22140827@waterbucket-laptop:~$ ls -l demo
-----T 1 B22140827 student 0 Oct 14 10:10 demo
B22140827@waterbucket-laptop:~$ chmod u+s demo
B22140827@waterbucket-laptop:~$ ls -l demo
---S-----T 1 B22140827 student 0 Oct 14 10:10 demo
B22140827@waterbucket-laptop:~$ chmod u+rx demo
B22140827@waterbucket-laptop:~$ ls -l demo
-r-s-----T 1 B22140827 student 0 Oct 14 10:10 demo
B22140827@waterbucket-laptop:~$ chmod g+rws demo
B22140827@waterbucket-laptop:~$ ls -l demo
-r-srwS--T 1 B22140827 student 0 Oct 14 10:10 demo
B22140827@waterbucket-laptop:~$
```

```
B22140827@waterbucket-laptop:~$ cd ~
B22140827@waterbucket-laptop:~$ mkdir others
B22140827@waterbucket-laptop:~$ cd others
B22140827@waterbucket-laptop:~/others$ touch Afile.txt
B22140827@waterbucket-laptop:~/others$ touch Bfile.c
B22140827@waterbucket-laptop:~/others$ tar -czvf backup.tar.gz others
tar: others: Cannot stat: No such file or directory
tar: Exiting with failure status due to previous errors
B22140827@waterbucket-laptop:~/others$ cd ../
B22140827@waterbucket-laptop:~$ tar -czvf backup.tar.gz others
others/
others/Bfile.c
others/Afile.txt
others/backup.tar.gz
B22140827@waterbucket-laptop:~$ ls -l
total 8
-rw-r--r-- 1 B22140827 student 0 Oct 14 10:07 HaoyanXu.txt
-rw-r--r-- 1 B22140827 student 266 Oct 14 10:28 backup.tar.gz
-r--srws--T 1 B22140827 student 0 Oct 14 10:10 demo
drwxr-xr-x 2 B22140827 student 4096 Oct 14 10:28 others
B22140827@waterbucket-laptop:~$ tar -xzvf backup.tar.gz
others/
others/Bfile.c
others/Afile.txt
others/backup.tar.gz
B22140827@waterbucket-laptop:~$ ls -l
total 8
-rw-r--r-- 1 B22140827 student 0 Oct 14 10:07 HaoyanXu.txt
-rw-r--r-- 1 B22140827 student 266 Oct 14 10:28 backup.tar.gz
-r--srws--T 1 B22140827 student 0 Oct 14 10:10 demo
drwxr-xr-x 2 B22140827 student 4096 Oct 14 10:28 others
B22140827@waterbucket-laptop:~$ cd others
B22140827@waterbucket-laptop:~/others$ ls
Afile.txt Bfile.c backup.tar.gz
B22140827@waterbucket-laptop:~/others$ ls -l
total 4
-rw-r--r-- 1 B22140827 student 0 Oct 14 10:27 Afile.txt
-rw-r--r-- 1 B22140827 student 0 Oct 14 10:27 Bfile.c
-rw-r--r-- 1 B22140827 student 45 Oct 14 10:28 backup.tar.gz
B22140827@waterbucket-laptop:~/others$
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```
B22140827@waterbucket-laptop:~$ touch njupt.txt
B22140827@waterbucket-laptop:~/others$ vim njupt.txt
B22140827@waterbucket-laptop:~/others$ grep '^n' njupt.txt
no, I study in njupt.
B22140827@waterbucket-laptop:~/others$ grep '\.00$' njupt.txt
this line ends with .00
He is 15. It is 16.00
B22140827@waterbucket-laptop:~/others$ grep '5\..' njupt.txt
He is 15. It is 16.00
B22140827@waterbucket-laptop:~/others$ grep '^[wy]' njupt.txt
wy is the short of my name.
B22140827@waterbucket-laptop:~/others$ |
```