3. Ubuntu common commands

3.1, Add

New create file

```
touch test.txt
```

New create folder

```
mkdir test # Create a file
mkdir -p test/src # Create the test folder and create the src folder in the test
folder
```

Copy

```
sudo cp test.txt test_copy.txt # Copy a file
```

3.2, Delete

-i	To execute interactively
-f	Forced deletion, ignoring non-existent files without prompting
-r	Recursively delete the contents of a directory

```
sudo rm test.txt  # Delete files | empty folders
sudo rm -r test  # Delete folders and their contents
```

3.3、Modify

• move、re-name

```
sudo mv test test_new  # Change the test folder to test_new
sudo mv test.txt test_new.txt  # Modify the test.txt file to test_new.txt
```

• chmod changes file permissions

Permission settings

Symbol	Meaning
+	Add permissions
-	Revoke permission
=	Set permissions

Letter permissions	Meaning
r	read means read permission. For a directory, if there is no r permission, it means that the contents of this directory cannot be viewed through ls.
W	write means write permission. For a directory, if there is no w permission, it means that new files cannot be created in the directory.
Х	execute means executable permission. For a directory, if there is no x permission, it means that the directory cannot be entered through cd.

```
sudo chmod +rwx test.txt
```

Add a shortcut to all permissions

```
sudo chmod 777 test.txt
```

Set root password

```
sudo passwd root
```

Set user password

```
sudo passwd user name
```

3.4, View

• View system version

```
lsb_release -a  # Release version number
uname -a  # Kernel version and system bit number
cat /proc/version # Kernel version and gcc version
```

• View hardware information

• View file information

```
la  # Display all subdirectories and files in the specified directory, including hidden files

ll  # Display detailed information of files in list format

ls -h  # Used to display the file size in a user-friendly way

cat test.txt  # View file content

tree  # View the file directory (needs to install tree)
```

tree installation command

```
sudo apt install tree
```

Find files

```
find ./ -name test.sh  # Find all files or directories named test.sh in the
current directory
find ./ -name '*.sh'  # Find all files or directories with the suffix .sh in
the current directory
find ./ -name "[A-Z]*"  # Search for all files or directories starting with an
uppercase letter in the current directory
```

3.5, Other

tar command

tar usage format: tar [parameter] package file name file

```
    -c # Generate archive files and create packaging files
    -v # List the detailed process of archive unarchiving and display the progress
    -f # Specify the name of the archive file. The f must be followed by a .tar file, so the option must be placed last.
    -t # List files contained in the archive
    -x # Unpack archive file
```

Pack

```
tar -cvf xxx.tar * # All files in current directory
tar -cvf xxx.tar *.txt # Files ending with .txt
tar -cvf xxx.tar my-file my-dir # Pack the specified directory or file
```

Unpack

```
tar -xvf xxx.tar  # Unpack to current directory
tar -xvf xxx.tar -C my-dir  # Unpack to the specified directory (you need to
create the my-dir directory first)
```

• zip、unzip command

Compressed file: zip [-r] target file (no extension) source file

```
zip bak *  # All files in the current directory, you can also specify files
zip -r bak *  # All files & directories in the current directory recursively
```

Unzip the file: unzip -d directory file after decompression compressed file

```
unzip -d ./target_dir bak.zip # Unzip to the specified directory
unzip bak.zip # Unzip to current directory
```

• In command

Soft link: Soft link does not occupy disk space. If the source file is deleted, the soft link will become invalid. Commonly used, you can create files or folders

```
ln -s Source file Link file
```

Hard links: Hard links can only link ordinary files, not directories. Even if the source file is deleted, the linked file still exists

```
In Source file Link file
```

scp remote copy

```
scp jetson@192.168.16.66:/home/jetson/xxx.tar.gz /home/yahboom/ # Copy files
from remote to local
scp /home/yahboom/xxx.png jetson@192.168.16.66:/home/jetson/ # Copy files
from local to remote
scp -r jetson@192.168.16.66:/home/jetson/test /home/yahboom/ # Copy directory
from remote to local -r
scp -r /home/yahboom/test jetson@192.168.16.66:/home/jetson/ # Copy directory
from local to remote -r
```

wget file download

Search for an image address on Baidu as an example.

```
wget
"https://www.yahboom.com/Public/ueditor/php/upload/image/20210104/16097637065267
02.png"
wget -O yahboom.jpg
"https://www.yahboom.com/Public/ueditor/php/upload/image/20210104/16097637065267
02.png"
```

Other

```
nautilus .
                        # Open the current file
                        # Switch to the current user's home directory
cd ~
(/home/user directory)
                        # Switch to the current directory
cd .
cd -
                        # can enter the directory where you were last time
                        # Switch to the system root directory /
cd /
pwd
                        # Display the current path
echo "HelloWorld"
                       # Output Helloworld information to the console
                        # View command location
which
```