

Linux Command Reference

ls - list directory contents

-a do not ignore entries starting with .
-l use a long listing format
-t sort by modification time
-1 list one file per line

```
$ ls                list directory contents
$ ls -l            list directory contents using a long listing format
$ ls -al           list directory contents using a long listing format, including hidden files
$ ls -1            list directory contents, one file per line
```

cd - change the shell working directory

```
$ cd                        change to home directory
$ cd ..                    change to parent directory
$ cd /                     change to the root directory
$ cd -                    change to the root directory
$ cd ~student3            change to the home directory of student3
% cd ~                    change to the home directory
$ cd ./a/b/c              change from the current directory to ./a/b/c
$ cd /a/b/c/d             change to the directory with full path /a/b/c/d
```

pwd - print name of current/working directory

```
$ pwd
/home/student4/public_html
```

mkdir dir - create a new directory dir

```
$ mkdir ./tmp
```

rm - delete file

```
$ rm ./trial.html
```

cp file1 file2 - copy file1 to file2

```
$ cp /etc/passwd ./passwd
```

mv file1 file2 - rename or move file1 to file2

```
$ mv ./passwd ./passwd.saved
```

cat file - display contents of file

```
$ cat ./passwd
```

more file - view the contents of a text file one screen at a time

```
$ more ./passwd
```

less file - view the contents of a text file one screen at a time

```
$ less ./passwd
```

ps - display your current active processes

```
$ ps
  PID TTY          TIME CMD
 15011 pts/1    00:00:00 bash
 27534 pts/1    00:00:00 ps
```

chmod octal file - change the permissions of file to octal

```
$ chmod 755 rpistatus
(rwx for owner, rx for group and others)
```

ssh user@host - connect to host as user using secure shell

```
$ ssh git@github.com
```

grep pattern files - search for pattern in files

```
$ grep student ./passwd
```

whoami - show logged in user id

```
$ whoami
student4
```

which command - show which command will be run by default and where is the command located

```
$ which rpistatus
/home/student4/scripts/rpistatus
```

ping host - ping host and output results

```
$ ping -c 1 rpi01
```

echo variable - print the value of a variable

```
$ echo $USER
student4
```

history - prints recently used commands

```
$ history
...
```

wc - print the number of newlines, words, and bytes in files

```
$ wc ./passwd
```

sort - sort lines of text files

```
$ sort ./passwd
```