

Basic Commands

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ls - list contents of directories

```
$ ls
file1 file2 file3
```

- **ls -l**

In addition to the name of each file, print the file type, permissions, number of hard links, owner name, group name, size in bytes, and timestamp (the modification time unless other times are selected). For files with a time that is more than 6 months old or more than 1 hour into the future, the times.

```
$ ls -l
total 3
-rw-r--r--  1 guest  users      8 Aug  4 15:56 file1
-rw-r--r--  1 guest  users      8 Aug  5 15:57 file2
-rw-r--r--  1 guest  users      8 Aug  4 15:57 file3
```

- **ls -lt**

Sort directory contents by timestamp instead of alphabetically, with the newest files listed first.

```
$ ls -lt
total 3
-rw-r--r--  1 guest  users      8 Aug  5 15:57 file2
-rw-r--r--  1 guest  users      8 Aug  4 15:57 file3
-rw-r--r--  1 guest  users      8 Aug  4 15:56 file1
```

cp - copy files

`cp [options] source dest`

```
$ ls
file1 file2 file3
$ cp file1 file4
$ ls
file1 file2 file3 file4
```

mv - rename files

mv [options] source dest mv [options] source... directory

```
$ ls
file1 file2 file3 file4
$ mv file4 /tmp
$ ls
file1 file2 file3
$ cd /tmp
[guest@linux /tmp]$ ls
file4
```

```
$ ls
file1 file2 file3 file4
$ mv file4 file5
$ ls
file1 file2 file3 file5
```

rm - remove files

```
$ ls
file1 file2
$ rm file2
$ ls
file1
```

mkdir - make directories

```
$ ls
file1
$ mkdir directory
$ ls -lt
total 2
drwxr-xr-x  2 guest  users      1024 Aug  5 11:40 directory/
-rw-r--r--  1 guest  users         8 Aug  4 16:04 file1
```

rmdir - remove empty directories

```
$ ls
directory/ file1
$ rmdir directory
$ ls
file1
```

cat - concatenate files and print on the standard output

```
$ cat file1
101    3people    2-DK
102    none       1-room
201    2people    2-DK
202    4people    3-LDK
```

grep - print lines matching a pattern

grep [-cvn] pattern [file1 file2 ...]

Options	
-c	Suppress normal output; instead print a count of matching lines for each input file. With the -v,-revert-match option (see below), count non-match
-v	Invert the sense of matching, to select non-matching lines.
-n	Prefix each line of output with the line number within its input file.

```
$ cat file1
101    3people    2-DK
102    none       1-room
201    2people    2-DK
202    4people    3-LDK

$ cat file2
301    4people    4-DK
302    3people    3-LDK
401    none       2-DK
402    2people    2-DK

$ grep LDK *
file1:202    4people    3-LDK
file2:302    3people    3-LDK
```

chmod - change the access permissions of files

```
[root@ns public_html]# ls -l
-rw----- 1 hoge staff 163 Aug 7 22:39 index.html
[root@ns public_html]# chmod g+r index.html
[root@ns public_html]# ls -l
-rw-r----- 1 hoge staff 163 Aug 7 22:39 index.html
[root@ns public_html]# chmod 644 index.html
[root@ns public_html]# ls -l
-rw-r--r-- 1 hoge staff 163 Aug 7 22:39 index.html
```

kill - terminate a process

- EX1)

```
# ps ax | grep dhcpd
```

```
278 ? S 0:00 /usr/sbin/dhcpd
7308 p1 S 0:00 grep dhcpd
# kill 278
# ps ax | grep dhcpd
7310 p1 S 0:00 grep dhcpd
```

- EX2)

```
# kill `ps ax | awk '/pppd/ {print $1}`
```

passwd - update a user's authentication tokens

```
$ passwd
Changing password for guest
(current) UNIX password:
New UNIX password:
Retype new UNIX password:
passwd: all authentication tokens updated successfully
```

man - format and display the on-line manual pages

man keyword

```
$ man ls

LS(1) LS(1)

NAME
    ls, dir, vdir - list contents of directories

SYNOPSIS
    ls [-abdfgiklmnpqrstuxABCFLNQRSUX1] [-w cols] [-T cols]
    [-I pattern] [--all] [--escape] [--directory] [--inode]
    [--kilobytes] [--numeric-uid-gid] [--no-group] [--hide-
    control-chars] [--reverse] [--size] [--width=cols] [--tab-
    size=cols] [--almost-all] [--ignore-backups] [--classify]
    [--file-type] [--full-time] [--ignore=pattern] [--derefer-
    ence] [--literal] [--quote-name] [--recursive]
    [--sort={none,time,size,extension}] [--format={long,ver-
    bose,commas,across,vertical,single-column}]
    [--time={atime,access,use,ctime,status}] [--help] [--ver-
    sion] [--color[={yes,no,tty}]] [--colour[={yes,no,tty}]]
    [name...]

DESCRIPTION
    This documentation is no longer being maintained and may
    .....
```