



Help

Find help on a command

```
$ man <command>
```

VirtualBox Key Combinations

Switch to and from full-screen

```
RCTRL + f
```

Linux Key Combinations

Launch a terminal

```
CTRL + ALT + t
```

Lock session

```
CTRL + ALT + l
```

Switch Desktop Workspace

```
ALT + Fx
```

Switch TTY

```
RCTRL + Fx
```

Move running process to background

```
CTRL + z
```

Relative Paths

- o . current dir
- o .. parent dir
- o ~ your home dir

Exploring and Traversing the File System

Show current working dir

```
$ pwd
```

List directory content

```
$ ls
```

List directory content and hidden files (long format)

```
$ ls -al
```

Change the current working dir

```
$ cd <path>
```

File types

- o - regular file
- o **d** directory (a file of a specific format that lists other files)
- o **l** a hard or soft link (basically a shortcut to another file)
- o **c** a character device file
- o **b** a block device file
- o **p** a pipe file
- o **s** a socket file

Manipulating the File System

Output file content

```
$ cat <file>
```

Create a new file

```
$ touch <file>
```

Create a new directory

```
$ mkdir <dir>
```

Remove file

```
$ rm <file>
```

Remove directory (recursive) and its content

```
$ rm -r <dir>
```

Move a file or a directory

```
$ mv <dir/file>
```

Copy file

```
$ cp <src_file> <dest_file>
```

Copy directory (recursive) and its content

```
$ cp -r <src_dir> <dest_dir>
```

File Ownership

Change owner of file or dir (add -R for recursive)

```
$ chown <user> <file>
```

Change group of file or dir (add -R for recursive)

```
$ chown :<group> <file>
```

Change owner and group of file or dir (add -R for recursive)

```
$ chown <user>:<group> <file>
```

Change permissions of file or dir (permissions can be octal or symbolic)

```
$ chmod <permissions> <file>
```

Symbolic permissions examples

```
g-rwx
```

```
g+rx
```

```
u+x,g+x-z
```

```
u+x,g+x-w,o-rwx
```

Nano - Text Editor

Open a file for editing

```
$ nano <file>
```

Save content of file (output)

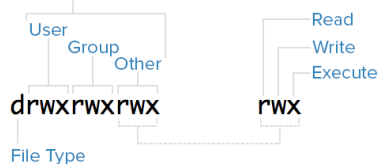
```
CTRL + o
```

Exit nano

```
CTRL + x
```

Filemode

Permissions Classes





Package Management

Update package list

```
apt-get update
```

Install package

```
apt-get install <package>
```

Remove package

```
apt-get remove <package>
```

Remove package including config files

```
apt-get --purge remove <package>
```

Upgrade all packages (without installing extra packages or removing packages)

```
apt-get upgrade
```

Upgrade all packages (install extra packages or remove packages)

```
apt-get dist-upgrade
```

Search for a package

```
apt-cache search <searchterm>
```

```
aptitude search <searchterm>
```

Secure SHell

Open connection with remote

```
$ ssh <username>@<ip_address>
```

Copy file between hosts (remote / local)

```
scp [[user1@]host1:]<source>  
[[user2@]host2:]<destination>
```