

Command Line Cheat Sheet: Table of Contents

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1. Helpful Commands and Tips

Check last typed commands:	history
Clear the Terminal:	clear
Close the Terminal:	exit
Cancel a command in progress:	CTRL + C
Open the manual for a command:	man <command>

*Use TAB when typing a name to use autocomplete

*Use the UP ARROW to use previously typed commands

*Run a program by typing the name and pressing ENTER

2. Navigating Directories

Path for the directory you're in:	<code>pwd</code>
Change directory:	<code>cd, cd .., cd <path></code>
List contents of a folder:	<code>ls, ls <path>, ls -la</code>
Look at hidden folders and files with	<code>-a</code>
Look at more information with	<code>-l</code>

3. Editing Folders and Files

Remove a directory recursively: `rm -r <foldername>`

*the recursive flag (-r) means everything inside will be affected by the command, removing everything

Remove a file:	<code>rm <filename></code>
Rename a folder or file:	<code>mv <oldpath> <newpath></code>
Copy a folder or file:	<code>cp <oldpath> <newpath></code>

4. Look at Contents of a file

Print contents to the terminal:	<code>cat <filename></code>
Scroll down in a file:	<code>more <filename></code>
Scroll and search in a file:	<code>less <filename>, (press q to quit)</code>

5. Installing Programs

Download and install a new program:	<code>sudo apt-get install <programname></code>
Download a patch:	<code>sudo apt-get update</code>
Apply a patch:	<code>sudo apt-get upgrade</code>

6. Users and Groups

List all users:	<code>cat /etc/passwd</code>
List all groups a user is in:	<code>groups</code>
Add user:	<code>adduser <username></code>
Add group:	<code>addgroup <groupname></code>
Add user to group:	<code>adduser <username> <groupname></code>
Remove an account from a group:	<code>deluser <username> <groupname></code>
Change group:	<code>chgrp -R <groupname> <path></code>
Change password:	<code>passwd <username></code>
Disable the account password:	<code>passwd -l <username></code>
Enable the account password:	<code>passwd -u <username></code>

7. Permissions and Ownership

Change ownership:	<code>chown -r <username> <path></code>
Change permissions:	<code>chmod {options} <path></code>

Options has 3 parts:

1. Accounts: user {u}, group {g}, others {o}, all {a}
2. Deny with -, Allow with +
3. Permission Access: read {r}, write {w}, execute {x}

Permission Denied - Examples:

Deny others write access:	<code>chmod o-w <path></code>
Deny yourself executable access:	<code>chmod u-x <path></code>
Deny everyone read access:	<code>chmod a-r <path></code>

Permission Allowed - Examples:

Allow everyone read and write access:	<code>chmod a+rw <path></code>
Allow yourself executable access:	<code>chmod u+x <path></code>
Allow group write access:	<code>chmod g+w <path></code>

8. Checking the System

A. Checking Users

See who logged in last: last
See who you are: who am i
See your machine name: hostname

B. Checking Processes and Files

See which files are open: lsof
See which programs are running live: top
See running and killed programs: ps
See running programs with detail: ps -aux
Kill a process: kill -9 <processID or PID> (can find PID by using top command)

C. Checking Network Connections

See who is connected: netstat
See who is connected and active: netstat -an -tcp (CTRL+C to stop it early)