

Comptia A+ Linux Cheat Sheet

Basic Command Syntax

command [options...] [arguments...]

Navigating the Filesystem

pwd `pwd [OPTIONS]`
Prints the working directory, your current location within the filesystem.

cd `cd [options] [path]`
Navigates the filesystem structure by changing directories.

Filesystem Path Shortcuts

`.` Current Directory `/` Root Directory
`~` Home Directory `~` Home Directory

ls `ls [OPTIONS] [FILE]`
Lists the contents of a directory.

ls -l Use long listing format

Administrative Access

su `su OPTIONS USERNAME`
Allows you to temporarily act as a different user by creating a new shell.

su -
su -l Configures the new shell with the settings of the new user.

su --login

sudo Allows a user to execute a command as another user.

sudo -u To specify a different user account use the -u option.

Filesystem Management

mv `mv File(s) Directory`
Move Files

mv `mv File_Name New_File_Name`
Rename Files

rm `rm [OPTIONS] FILE`
Remove Files

chown `chown [OPTIONS] [OWNER] FILE`
Changes the ownership of a file.

cp `cp [OPTIONS] SOURCE DESTINATION`
Copy Files

dd `dd [OPTIONS] OPERAND`
Copy Files at the bit level

Permissions

chmod Changes the permissions of a file.

	SYMBOL	MEANING		
u	User	+ Add	r	Read
g	Group	= Exact	w	Write
o	Others	- Remove	x	Execute
a	All			

Filtering Input

grep `grep [OPTIONS] PATTERN [FILE]`

Regular Expression Patterns

Basic Regex Character(s) || Meaning

`.` Any one single character `*` Zero or more of the previous character
`[]` Any one specified character `^` If first character in the pattern, then pattern must be at beginning of the line
`[^]` Not the one specified character `$` If last character in the pattern, then pattern must be at the end of the line

Package Management

apt-get Advanced Package Tool

`sudo apt-get update` Refresh package list
`apt-cache search [keyword]` Search for packages by keyword
`sudo apt-get install [package]` Install a package
`sudo apt-get upgrade` Update all package and dependencies
`sudo apt-get remove [package]` Remove a package
`sudo apt-get purge [package]` Purge a package completely from the system

Shutting Down

shutdown `shutdown [OPTIONS] TIME [MESSAGE]`

Display Network Configuration

ifconfig `ifconfig [OPTIONS]`
Displays network configuration information.

ifwconfig Displays wireless network configuration information.

Viewing Processes

ps `ps [OPTIONS]`

ps -e Display every process **ps -f** Display additional details

Updating User Passwords

passwd `passwd [OPTIONS] [USER]`

Change the password of the current user

passwd -S Print status information of current users password:

<User Name> <Password Status> <Change Date>
<Minimum> <Maximum> <Warning> <Inactive>



Learn Linux for Free

Need to refresh your Linux skills? NDG's free online tutorial (Linux Unhatched) covers everything you need to know to successfully install and configure Linux. Want more? Our Linux Essentials course—available for free through the Cisco Networking Academy—teaches the fundamentals of the Linux OS, command line, and basic open source concepts.

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