

Learning Linux Command Line Cheat Sheet

by Anthony.Dominguez via cheatography.com/202519/cs/42984/

General Command Syntax			
Command	Option(s)	Argument(s)	
ls	-ahl	/usr/bin	
sort	-u	users.txt	
grep	-i "needle"	heystack	

Commands are programs that take a particular action
Options tell the command *how* to operate
Arguments tell the command *what* to operate on

Finding Help for Commands		
man	argument	
argument	help	
apropos	functionality search	

Useful Keyboard Shortcuts			
Tab	Tab completion		
Ctrl - A	Move to beginning of line		
Ctrl - E	Move to end of line		
Ctrl - Left arrow	Move left one word		
Ctrl - Rig arrow	Move right one word		
Ctrl - U	Delete from cursor to line start		
Ctrl - K	Delete from cursor to line end		
Ctrl - Shift - C	Copy selected text to clipboard		
Ctrl - Shift - V	Paste text from clipboard		
Up arrow	Recall previous command		
Down arrow	Scroll previous command		
Ctrl - R	Search command history		
Ctrl - C	Cancel command		

Commands for File Information				
Command	Option(s)	Argument(s)	Description	
file		argument	Determine file type	
stat		argument	Display file status	

Notable File System Directories		
1	File system root	
/home	User home directories	
/root	Root user's home directory	
/etc	Common configuration files	

Notable File System Directories (cont)		
/bin, /sbin	Common programs or commands	
/lib	Shared libraries and modules	
/mnt, /media	Standard location for mounting other file systems	
/dev, /proc, /sys	Kernel and system information	

Paths in Linux	
/	Absolute path
	Current working directory
	Parent directory
~	Current user's home directory
\- space	Equivalent to space key

The File System		
cd	Change the shell working directory	
pwd	Print the name of File system root: / User home directories: /home Root user's home directory: /root	
le		

The File System			
Command	Option(s)	Argume- nt(s)	Description
cd	available	new directory	Change the shell working directory
pwd	available		Print the name of the current working directory
Is	-lh	directory	List information about the files

Working with Directories and Files			
Command	Option(s)	Argume nt(s)	Description
mkdir	available	direct- ory(ies)	Create the directory(ies)Create the directory(ies)
rmdir	available	direct- ory(ies)	Remove the directory(ies), if they are empty



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File Permissions

rwx

Group

rwx

Work	Working with Directories and Files (cont)				
ср	available	source - destination	Copy source to destination		
mv	available	source - destination	Move source to destination		
rm	-r	file(s)	Remove the file(s) (recursively)		
find	-name	directory - "expres- sion*?	Find directory or file by name		

Search for Text				
Command	Option(s)	Argument(s)	Description	
grep	options	"pattern*? file name	Search for patterns in file	

Tools for Text			
Command	Option(s)	Argume- nt(s)	Description
cat	available	file name	Concatenate to standard output
head	available	file name	Print the first number of something
tail	available	file name	Print the last number of something

Tools for W	Tools for Working with Text		
Command	Description		
awk	Often used to extract specific text from a file according to rule		
sed	Often used to modify text in a command pipeline or in place		
sort	Often used to sort text		
Vim and nar	Vim and nano are very popular text editors in CLI		

Hard and Symbolic Links			
Command	Option(s)	Argument(s)	Description
In	-S	source file link name	Creates a soft link
In		source file link name	Creates a hard link
A hard link points to specific data (by inode) on the diskA soft link or symbolic link (symlink) points to another file			

Others

rwx

Description

Up to three letters indicate

			the permissions for the file or directory
Command	Option(s)	Argume- nt(s)	Description
chmod	octal or symbolic change	file or directory	Changes the mode of the file or directory
chown	new owner	file or directory	Changes the owner of the file or directory
chgrp	new group	file or directory	Changes the group of the file or directory

- r: read (value of 4)
- w: write (value of 2)
- e: execute (value of 1)
- u: user
- g: group
- o: others
- a: all

Two methods to represent permissions:

- Octal (like 755, 644, 777)
- Symbolic (like a=r, g+w, and o-x)

Tape Archives and Data Compression			
Command	Option(s)	Argument(s)	Description
tar	-cvf	file name.tar directory	Creates a tape archive



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command

package

sudo apt update

sudo apt

upgrade

install

package

sudo apt

software package

Install the package

Upgrade the software package

Redirection (cont)

number>

Tape /	Tape Archives and Data Compression (cont)		
tar	- caf	file name.tar.g- z/tar.bz2 directory	Creates a compressed tape archive, the compression type depends on the extension
tar	-xf	file name-C target directory	Extracts a compressed tape archive inside a certain directory
zip	-r	file name directory to compress	Compresses a directory
unzip		file name-d target directory	Extracts a directory

Superuser Rights		
sudo + command	Executes the command with superuser rights (requires user password)	
sudo + -s	Activates superuser rights for a period of time	
sudo + -k	Gives up superuser rights	

Formats for compressed .tar files are: .tar.gz, .tgz, .tar.bz2

Environment Variables and PATH		
env Set some attributes in the environment		
which Locate a command		
~/.bash_profile Bash profile (create with command nano)		
Inside nano, write: PATH = "\$PATH : /my/custom/path : /some/other/path"		

Redirection		
Stream	Number	Usage
Standard Input (stdin)	0	Text input
Standard Output (stdout)	1	Text output
Standard Error (stderr)	2	Error text

command	number>> file name Appends the output to the file			
Information About Linux Distribution & Hardware				
Command	Description			
Is -l /etc/*- release	List of the files that contain information about the release			
cat /etc/*- release	Shows information about the two files in the release folder			
uname -a	Show information about Linux Kernel			
uname -r	Shows only the version of the Linux Kernel			
free -h	Shows how much memory the system has			
cat /proc/- cpuinfo	Shows how much CPU the system has			
Iscpu	Shows more comprehensive information about the system's CPU			
df -h	Shows how much storage the system has			
Install and Update Software				
apt search	Looks for packages whose description match the search term			
apt show	Displays information about the package			

file name

Redirects the output to the file



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Retrieve an updated list of the packages from the reposi-

tories before installing new software or upgrading the