# Cheatography

#### 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 (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

#### ls

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
ls	-lh	directory	List information about the files

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

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



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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	Search for patterns in
		name	file

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

# Tools for Wirking 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-very popular text editors in CLI

Command	Option(s)	Argument(s	)	Description
In	-S	source file l	ink name	Creates a soft link
In		source file l	ink name	Creates a hard link
<ul> <li>A hard link points to specific data (by inode) on the disk</li> <li>A soft link or symbolic link (symlink) points to another file</li> </ul>				
File Permiss	sions Group	Others	Descriptio	on
rwx	rwx	rwx		ee letters indicate issions for the file or
Command	Option(s)	Argume- nt(s)	Descriptio	on
chmod	octal or symbolic change	file or directory	Changes or directo	the mode of the file ry
chown	new owner	file or directory	Changes or directo	the owner of the file ry
chgrp	new group	file or directory	Changes or directo	the group of the file ory
r: read (valu w: write (val e: execute ( u: user g: group o: others	ue of 2)			

- 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	<i>file name</i> .tar	Creates a tape
		directory	archive

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Tape /	Tape Archives and Data Compression (cont)			
tar	- caf	<i>file name</i> .tar.g- z/tar.bz2 <i>directory</i>	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		<i>file name</i> -d <i>target</i> <i>directory</i>	Extracts a directory	

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

#### Superuser Rights

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

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
Standard Output (stdout)	0 1 2	Text output

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Redirection	(cont)		
command	number>	file name	Redirects the output to the file
command	number>>	file name	Appends the output to the file
Information	About Linux I	Distribution &	& Hardware
Command	Descripti	on	
<b>ls</b> -l /etc/*- release	List of the release	e files that c	ontain information about the
<b>cat</b> /etc/*- release	Shows in folder	formation al	bout the two files in the release
uname -a	Show inf	ormation ab	out Linux Kernel
uname -r	Shows o	nly the versi	on of the Linux Kernel
free -h	Shows h	ow much me	emory the system has
<b>cat</b> /proc/- cpuinfo	Shows h	ow much CF	PU the system has
Iscpu	Shows m system's		hensive information about the
df -h	Shows h	ow much sto	brage the system has
Install and	Update Softwa	are	
apt	Looks for pa	ckages who	se description match the search
search	term		

apt search <i>search</i>	Looks for packages whose description match the search term
apt show package	Displays information about the package
sudo apt update	Retrieve an updated list of the packages from the reposi- tories before installing new software or upgrading the software package
sudo apt install <i>package</i>	Install the package
sudo apt upgrade	Upgrade the software package

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