

Keyboard	d Shortcuts	Users an	d Groups	Fi	les es	System N	fanagement -	Pro	cesses
Ctrl + C	Kill process running in the	id	See details about the active users.	mkdir [directory_name]	Create a new directory.	uname -r	Show system information	ps	List active processes.
Ctrl + Z	terminal.  Stop the current process.	last	Show the last system	rm [file_name]	Remove a file.	uname -a	via uname command. See kemel release	pstree	Show processes in a tree- like diagram.
	The process can be resumed in the foreground with <b>fg</b> or in the	who	logins.  Display who is currently	rm -r [directory_name]	Remove a directory recursively.	uptime	information.  Display how long the	pmap	Display a memory usage map of processes.
Ctrl + W	background with <b>bg</b> .  Cut one word before the	w	logged into the system.  Show which users	rm -rf [directory_name]	Recursively remove a directory without requiring confirmation.		system has been running, including the load average.	top	See all running processes.
Call V	cursor and add it to the dipboard.		are logged in and their activity.	cp [source_file] [destination_file]	Copy the contents of one file to another file.	hostname	View system hostname.	htop	Interactive and colorful process viewer.
Ctrl + U	Cut part of the line before the cursor and add it to the	finger [user_name]	Show user information.  Create a new user account.	cp -r [source_directory]	Recursively copy a	hostname -i	Show the IP address of the system.	kill [process_id]	Terminate a Linux process under a given ID.
Ctrl + K	dipboard.  Cut part of the line after the	[user_name]		[destination_directory]	directory to a second directory.	last reboot date	List system reboot history.  See current time and date.	pkill [process_name]	Terminate a process under a specific name.
	cursor and add it to the dipboard.	sudo adduser [user_name]	Create a new user account through the adduser command interface.	mv [source_file] [destination_file]	Move or rename files or directories.	timedatect	Query and change the system clock.	killall [label]	Terminate all processes with a given label.
Ctrl + Y Ctrl + R	Paste from clipboard.  Recall the last command	sudo userdel [user_name]		In -s [path]/[file_name] [link_name]	Create a symbolic link to a file.	cal	Show current calendar (month and day).	prgrep [keyword]	List processes based on the provided keyword.
	that matches the provided characters.	sudo usermod -aG [group_name] [user_name]	Modify user information (add a user to a group).	touch [file_name]  cat [file_name]	Create a new file.  Show the contents of a file.	w	List logged-in users.	pidof [process_name]	Show the PID of a process.
Ctrl + O	Run the previously recalled command.	passwd sudo passwd [user_name]	Change the current user's or another user's	cat [source_file] >> [destination_file]	Append file contents to another file.	whoami	See which user you are using.	bg	List and resume stopped jobs in the background.
Ctrl + G	Exit command history without running a command.	sudo groupadd	password.  Add a new group.	head [file_name]	Show the first ten lines of a file.	finger [user_name]	Show information about a particular user.	fg	Bring the most recently suspended job to the foreground.
clear	Clear the terminal screen.	[group_name] sudo groupdel	Delete a group.	tail [file_name]	Show the last ten lines of a	ulimit [flags] [limit]	View or limit system resource amounts.	fg [job]	Bring a particular job to the
Ш	Run the last command again.	[group_name]		more [file_name]	file.  Display contents of a file	shutdown [hh:mm]	Schedule a system shutdown.	Isof	foreground.  List files opened by running
exit	Lag out of the current session.	sudo groupmod -n [new_name] [old_name]	Modify a user group (change group name).	less [file_name]	page by page.  Show the contents of a file	shutdown now	Shut down the system immediately.	trap "[commands]"	processes.  Catch a system error
Sear	rching	sudo [command]	Temporarily elevate user privileges to superuser or root.	nano [file_name]	with navigation.  Open or create a file using	modprobe [module_name]	Add a new kernel module.	[signal]	signal in a shell script. Executes provided commands when the signal
find [path] -name [search_pattern]	Find files and directories that match the	su - [user_name]	Switch the user account or become a superuser.	vi [file name]	the nano text editor.  Open or create a file using	dmesg	Show bootup messages.	wait	is caught.  Pause the terminal or a
	specified pattern in a specified location.	chgrp [group_name] [file/ directory]	Change file or directory group.	vim [file_name] gpg -c [file_name]	the Vi/Vim text editor.  Encrypt a file.	Ne	twork		Bash script until a running process is completed.
find [path] -size [+100M]	See files and directories larger than a specified size in a directory.		Login	gpg [file_name].gpg	Decrypt an	ip addr show	List IP addresses and network interfaces.	nohup [command] &	Run a Linux process in the background.
grep [search_pattern]	Search for a specific	ssh [user_name]@[host]	Connect to a remote	wc -w [file_name]	encrypted .gpg file.  Show the number of	ip address add [IP_address]	Assign an IP address to interface <b>eth0</b> .	Hardware	Information
[file_name] grep -r [search_pattern]	pattern in a file with grep.  Recursively search for a	ssh [host]	host as a user via SSH.  Securely connect to a		words, lines, and bytes in a file.	ifconfig	Display IP addresses of all network interfaces.	Iscpu	See CPU information.
[directory_name]	pattern in a directory.  Locate all files and		host via SSH default port 22.	ls   xargs wc	List the number of lines/ words/characters in each file in a directory.	ping [remote_host]	Ping remote host.	Isbik	See information about block devices.
	directories related to a particular name.	ssh -p [port] [user_name]@[host]	Connect to the host using a particular port.	cut -d [delimiter] [file_name]	Cut a section of a file and print the result to standard	netstat -pnltu	See active (listening) ports with the netstat command.	Ispci -tv	Show PCI devices in a tree- like diagram.
which [command]	Search the command path in the <b>\$PATH</b> environment	ssh-keygen	Generate SSH key pairs. Start SSH	[data]   cut -d [delimiter]	output.  Cut a section of piped data	netstat -tu n	Show TCP and UDP ports and their programs.	Isusb -tv	Display USB devices in a tree-like diagram.
whereis [command]	variable.  Find the source, binary,	sudo service sshd start	server daemon. Securely copy	,,	and print the result to standard output.	whois [domain_name]	Display more information about a domain.	Ishw	List hardware configuration information.
Wileres (communa)	and manual page for a command.	scp [file_name] [user_name]@[host]:[rem ote_path]	files between local and remote systems via SSH.	shred -u [file_name]	Overwrite a file to prevent its recovery, then delete it.	dig [domain_name]	Show DNS information about a domain using	cat/proc/cpuinfo	Show detailed CPU information.
awk '[search_pattern] {print \$0}' [file_name]	Print all lines matching a pattern in a file. See also	sftp [user_name]@[host]	Interactive file transfer over encrypted SSH	diff [first_file] [second_file]	Compare two files and display differences.	dig -x [domain_name]	the dig command.  Do a reverse DNS lookup	cat /proc/meminfo	View detailed system memory information.
	the gawk command, the GNU version of <b>awk</b>		session using SFTP protocol.	source [file_name]	Read and execute the file content in the current shell.	dig -x [IP_address]	on the domain.  Do a reverse DNS lookup of	cat /proc/mounts	See mounted file systems.
sed 's/[old_text]/ [new_text]/' [file_name]	Find and replace text in a specified file.	telnet (host)	Connect to the host via Telnet default port 23.	[command]   tee [file_name] >/dev/null	Store the command output in a file and skip the	host [domain_name]	an IP address.  Perform an IP lookup for a	free -h	Display free and used memory.
Directory	Navigation	File Per	rmissions	Disk	terminal output.  Usage	hostname -I	domain.  Show the local IP address	sudo dmidecode	Show hardware information from the BIOS.
ls	List files and directories in the current directory.	chmod 777 [file_name]	Assign read, write, and	df -h	Check free and used	nslookup [domain_name]	Receive information about an internet domain.	hdparm -i /dev/ [device_name]	Display disk data information.
ls -a	List all files and directories in the current directory		execute file permission to everyone ( <b>rwxrwxrwx</b> ).		space on mounted systems.		mpression	hdparm -tT /dev/ [device_name]	Conduct a read speed test on the device/disk.
ls -l	(shows hidden files).  List files and directories in	chmod 755 (file_name)	Give read, write, and execute permission to owner, and read and	df -i	Show free inodes on mounted file systems.	tar cf [archive.tar] [file/	Archive an existing file or	badblocks -s /dev/ [device_name]	Test for unreadable blocks on the device/disk.
pwd	long format.  Show the directory you		execute permission to group and others ( <b>rwxr-xr-x</b> ).	fdisk -l	Display disk partitions, sizes, and types with the command.	directory] tar xf [archive.tar]	directory.  Extract an archived file.	fsck /dev/[device_name]	Run a disk check on an unmounted disk or partition.
cd	are currently working in. Change	chmod 766 [file_name]	Assign full permission to the owner, and read and	du -ah	See disk usage for all files and directories.	tar czf [archive.tar.gz]	Create a .gz compressed tar archive.	Chall C	ommands
cd ~	directory to <b>\$HOME</b> Move up one directory		write permission to the group and others (rwxrw-rw-).	du -sh	Show disk usage of the current directory.	gzip [file_name] gunzip [file_name.gz]	Compress or decompress .gz files.	alias [alias-	Create an alias for a
cd -	level.  Change to the previous	chown [user_name] [file_name]	Change the ownership of a file with chown	mount	Show currently mounted file systems.	bzip2 [file_name] bunzip2 [file_name.bz2]	Compress or decompress	name]='[command]' watch -n [interval-in-	command.  Set a custom interval to
cd [directory_path]	directory.  Change location to a	chown	command.  Change the owner and	findmnt	Display target mount point for all file systems.		Transfer	seconds] [command]	run a user-defined command.
dirs	specified directory.  Show current directory	cnown [user_name]:[group_nam e] [file_name]	criange the owner and group ownership of a file.	mount [device_path] [mount_point]	Mount a device.	scp [source_file] [user]@[remote_host]:[d	Copy a file to a server e directory securely.	sleep [time-interval] && [command]	Postpone the execution of a command.
	stack.	Packages (Red H	at, CentOS, Fedora)		(Universal)	stination_path]	Synchronize the contents	at [hh:mm]	Create a job to be executed at a certain time (Ctrl+D to exit prompt
Packages (D	ebian/Ubuntu)  Irstall an APT package	sudo yum install [package_name]	Install a package using the YUM package	tar zxvf [file_name.tar.gz]	Install software	[source_directory] [user]@[remote_host]:[d stination_directory]	of a directory with a	man [command]	after command).  Display a built-in
[package_name]	using the apt-get package utility.	yum search [keyword]	manager.  Find a package in the	cd [extracted_directory] ./configure make make install	from source code.	wget [link]	Download files from FTP or web servers.		manual for a command.
sudo apt install [package_name]	Install an APT package using a newer APT		YUM repositories based on the provided keyword.	sudo snap install [package_name]	Install a Snap package.	curl -O [link]	Transfer data to or from a server with various	history	Print the command history used in the terminal.
apt search [keyword]	package manager.  Search for a package in	yum list installed	List all packages installed with YUM.	sudo snap find [keyword]	Search for a package in the Snap store.	ftn (remote base)	protocols.  Transfer files between	Var	ables
apt list	the APT repositories.  List packages installed	yum info [package_name	Show package information for a package.	sudo snap list	List installed Snap packages.	ftp [remote_host]	Transfer files between local and remote systems interactively using FTP.	let "[variable_name]=[value]	Assign an integer value to a variable.
apt show	with APT.  Show information about a	sudo dnf install [package_name]	Install a package using the DNF package	flatpak install [package_name]	Install a Flatpak package.	sftp [user]@[remote_host]	Securely transfer between local and remote hosts	export [variable_name]	Export a Bash variable.
[package_name] sudo dpkg -i	package. Install a .deb package with		manager.	flatpak search [keyword]	Search for a Flatpak		using SFTP.	declare [variable-name]= "[value]"	Declare a Bash variable.
[package_name.deb]	the Debian package manager.	sudo rpm -i [package_name.rpm]	Install a <i>.rpm</i> package from a local file.	flatpak list	application in repositories.			set	List the names of all the shell variables and functions.
sudo dpkg -l	List packages installed with dpkg.				packages.			unset [variable_name]	Remove an environment variable.
								echo \$[variable-name]	Display the value of a
									variable.