

Linux Commands Cheat Sheet

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