

Linux Commands

Directory



cd

navigate through files and directories

cd..

move one directory up

cd-

move to your previous directory

pwd

show the directory currently working in

rmdir

delete a directory and its contents

mkdir [directory]

create a new directory

scp [file_name.txt] [server/tmp]

securely copy a specific file to a server directory

rsync -a [//your/directory] [//backup/]

synchronize the contents of a specific directory with a backup directory

Disk Usage



df

get a report on the system's disk space usage

du

check the disk space usage of a file or directory

fdisk -l

show disk partitions, sizes, and types

du -ah

show disk usage for all files and directory

du -sh

show disk usage of the current directory

findmnt

show target mount point for all filesystems

File Commands



ls

list files in a directory

ls -R

list all files in the sub-directories

ls -a

list all hidden files

ls -al

list all files and directories with detailed information like permissions, size, owner, etc

cat

list the contents of a file on standard output

cat > filename

creates a new file

diff

compare the contents of two files line by line

tar

archive multiple files into a common Linux file format

cat filename 1 filename2>filename3

joins two files (1 and 2) and stores the output in a new file (3)

tar xf [compressed_file.tar]

extract archived file

cat filename | tr a-z A-Z >output.txt

convert a file to upper or lower case

tar czf [compressed_file.tar.gz]

create a gzip-compressed tar file

tar cf [compressed_file.tar] [file_name]

create an archived file from a file

gzip [file_name]

compress a file with the .gz extension

chmod

change the read, write, and execute permissions of files and directories

chown

change or transfer file ownership

rm [file_name]

remove a file

File Commands

rm -r [directory_name] remove a directory recursively	rm -rf [directory_name] remove a directory recursively without requiring confirmation	wc print the number of words, lines, and bytes in a file	
cp copy files from the current directory to a different directory	cp [file_name1] [file_name2] copy the contents of the first file to the second file	wget download files from the internet	
cp -r [directory_name1] [directory_name2] recursively copy the contents of the first directory into the second directory		mv to move or rename files	
mv [file_name1] [file_name2] rename file_name1 to file_name2	ln -s /path/to/[file_name] [link_name] create a symbolic link to a file		
touch [file_name] create a new file	more [file_name] show the contents of a file	head [file_name] show the first 10 lines of a file	
tail [file_name] show the last 10 lines of a file	gpg -c [file_name] encrypt a file	gpg [file_name.gpg] decrypt a file	
sudo perform tasks that need administrative or root permissions	locate to search for a file or directory	find to locate files within a directory	jobs display current jobs
kill terminate an unresponsive program	history review the commands you entered before	uname print information about your Linux system	man show manual instructions of Linux commands
zip compress files into a zip archive	unzip extract zipped files from a zip archive	top monitor system resource usage	ps show a snapshot of active processes
echo move data into a file	hostname know the name of your host/network	ping check connectivity to a server	

Network

ip addr show show IP addresses and network interfaces	ifconfig show IP addresses of all network interfaces	netstat -pnlut show active ports	netstat -nutlp show more information about a domain
whois [domain] show more information about a domain	dig [domain] show DNS information about a domain	host [domain] do an IP lookup for a domain	

System	
uname -r show system information	last reboot show system reboot history
timedatectl query and change the system clock	date show current time and date
hostname -i show the IP address of the system	uptime show how long the system has been running, including load average

User	
id show details of the user	passwd add a password to a user's account
useradd create a new user	last show last logins
userdel [user_name] remove a user	

Keyboard Shortcuts			
Ctrl + E move to the end of the line	Ctrl + A move to the beginning of the line	Ctrl + C stop and terminate the current command	Ctrl + W cut one word before the cursor and add it to the clipboard
TAB autofill typing	Ctrl + Q unfreeze the terminal	Ctrl + Z pause the command	Ctrl + S freeze the terminal
Ctrl + U cut part of the line before the cursor and add it to the clipboard		Ctrl + K cut part of the line after the cursor and add it to the clipboard	
Ctrl + R recall the last command that matches the provided characters		Ctrl + G exit command history without running a command	
!! repeat the last command		exit log out of the current session	
Ctrl + Y paste from clipboard			
Ctrl + O run the previously recalled command			

