## **Basic Linux Command**

Command Name	Syntax	Description	Examples
Is	ls -[option] <directory></directory>	Is command used to see the files and folder inside a	=> ls -l m
	1 *	directory .it is the most used command in linux.	[root@localhost vagrant]# ls -m
	2) <b>Is -a</b> show the hidden files also		file1, file2, file3, file4.txt, file5.py, file6.java, test1, test2, test3
	3) <b>Is -I</b> will show the files and folder in a listing format		
	4) <b>Is -Ih</b> will show the file with listing and size		
	5) <b>Is -i</b> will show the list of files and folders with Inode		
	6) <b>Is -t</b> will show the modification time with directory listing		
more	More <options></options>	It is used for many purpose.	=>more more +30
111010	-	Is is used for displaying the	
		content inside a file.	this is linux tutorial
	, ,	If any directory has many	
	reading file one screen at		[root@looolboot
		you can see it with one screen at a time.	[root@localhost vagrant]# ls   more
			file1
	·       •		file2
	content	·	file3
	2,		file4.txt
	3)more + <number> will</number>		file5.py
	display the line after the		file6.java
	input line number		file.txt

loge	5)Is   more will how the directory on screen at a time  6) cat <file_name>   more read any file with one screen at a time</file_name>		test1 test2 test3
less	_	scroling options	=>dmesg   less -E =>dmesg   less -N =>dmesg   less -p systemd =>cat file.txt   less -F =>cat file.txt   less -E =>cat file.txt   less -E

	less to start at the first occurrence of pattern in the file less -s : causes consecutive blank lines to		
	be squeezed		
	less -N : shows line number		
strings	strings <filename></filename>	To display the content of the file	String file.txt
tree	Tree <directory> [you may have to tool with package manager]</directory>	To display the Directory stricture in a tree format	tree /dev tree /home//user1
dir	Dir <directory_name> [you have to install 'tree' tools before using this command]</directory_name>	To display the diles and folder inside the directory	dir /dev dir / dir /home
date	date	To display the current date and time	date
cal	Cal cal <year> cal <month> <year></year></month></year>	To display the calendar	=> calendar 2019 => calendar 12 2019
clear	clear	Clean the screen	clear
bc	Bc [you may have to install it first]	Basic calculator	=>bc [type quit for exit]
rmdir	<empty_directory></empty_directory>	Remove empty directory [you cant remove any directory which has file in it with this command]	=>rmdir dir1/
mkdir	mkdir <directory> : for making single directory  mkdir -p <directory directory="">: for making recursive directory</directory></directory>	Making directory	mkdir test mkdir -p test1/test2/test3
file	File <filename></filename>	Display the file type	=>file file.txt file.txt: ASCII text

hwclock	Display the Bios time	hwlock
		=>In -s main.txt soft.txt =>In -s main.txt hard.txt
link In -P : for creating hard link	delete the main file link wont remove but in case of the soft link if you delete the main file the the linked file will be	nard.txt
	history it will show the last 1000 command of the user you can set the limit if you	=>history
	[you need to apply the command 'updatedb' for	=>locate file.txt
in the following order uname -s :print the kernel name uname -n: print hostname uname -r: print the kernel release	about the kernel , OS and hardware-platform	[root@localhost vagrant]# uname -a Linux localhost.localdomain 3.10.0- 957.12.2.el7.x86_64 #1 SMP Tue May 14 21:24:32 UTC 2019 x86_64 x86_64 x86_64 GNU/Linux
	In <option> <source_file> <shortcut_file> In -s : for creating soft link In -P : for creating hard link  history  Locate <file_name>  uname -a : all information, in the following order  uname -s :print the kernel name  uname -n: print hostname  uname -r: print the kernel release  uname -v : print the kernel</file_name></shortcut_file></source_file></option>	In <option> <source_file> Create a link of the source filename  In -s : for creating soft link In -P : for creating hard link  In -P : for creating hard link  In -P : for creating hard link  In case in hard link if you delete the main file link wont remove  but in case of the soft link if you delete the main file the the linked file will be removed  Shows users command history it will show the last 1000 command of the user you can set the limit if you like  Locate <file_name> It will search the entire system for that file  [you need to apply the command 'updatedb' for getting letest entry]  uname -a : all information, in the following order uname -s :print the kernel name  uname -n: print hostname  uname -r: print the kernel release  uname -v : print the kernel</file_name></source_file></option>

	machine hardware name		
	uname -p: print the processor type		
	uname -i: print the hardware platform		
	uname -o: print the operating system		
tar	tar -cvf <archive_name> <source/> : for creating archive</archive_name>	_	[root@localhost vagrant]# tar -cvf arch test1
	tar -xvf : for extracting		file arch
	archive		arch: POSIX tar archive (GNU)
			[root@localhost vagrant]# tar -xvf arch
gzip	gzip < file_name>	For compressing normal file or archive file	[root@localhost vagrant]# gzip arch
			[root@localhost vagrant]# file arch.gz arch.gz: gzip compressed data, was "arch", from Unix, last modified: Fri Jul 26 11:25:49 2019
gunzip	gunzip <compress_file></compress_file>	It is used for uncompromising a compressed file	[root@localhost vagrant]# gunzip arch.gz
Ismod	Ismod	Show a list of the modules used by the kernel	Ismod
rmmod	rmmod <module_name>  [you need to be a root user to perform this</module_name>	Delete any module used by the kernel	=>rmmod bluetooth =>rmmod iptable_nat
	action]	[not Recommended . don't	

	rmmod-f, forces a module unload and may crash your machine. This requires Forced Module Removal option in your kernel. DANGEROUS rmmod -v, enables more messages rmmod -V, show version	do it unless you are absolutely sure what you are doing ]	
Modprobe	modprobe	Adding new module to the system	modprobe bluetooth modprobe bluetooth
ps	ps	See the current running process of the system	[root@localhost vagrant]# ps PID TTY TIME CMD 1517 pts/0 00:00:00 sudo 1519 pts/0 00:00:00 bash
pstree	pstree [you have to install the psmisc package with the package manager]	Show the process in a tree format.you can see the parent and the child tree with this.	
top	top	Top command is used for process monitoring. [more information about top in Process management]	top
htop	htop [you may need to install the packages using package manager]	the top command but with more options and user friendly environment [more information in process management chapter]	htop
renice	renice -n <pri>renice -n <pri>priority&gt; -p</pri></pri>	Used for changing the priority	Renice -n 15 -p 2121

		of a process running on a system. [more info in process management chapter]	
kill	Kill - <sigterm> -p pid</sigterm>	Used for terminating process for this purpose different Kill signal is used. [more information in process management chapter]	Kill -15 1111 kill -9 3333
uptime	uptime	Shows the system's running time. and load averages of previous 1 minute ,5 minute and 15 minute. [this information can be found in top and htop command also]	uptime
iostat	lostat -c : generate cpu status only  iostat -d : generate I/O statistics for all the devices  iostat -x : generate detail I/O statistics  iostat -x : generate detail I/O statistics and CPU information  iostat -p <devices> : generate details for that specific devices  iostat -m : generate statistics in Megabyte  iostat -k : generate statistics in Kilobyte  iostat -N : generate LVM options  iostat -t: generate</devices>	Shows the Cpu and I/O information [more information in process management Devices]	iostat

	statistics with timestamp		
	information of NFS devices		
sar		Shows the CPU and I/O statistics like the iostat command	sar
hostname	hostname : displaying ostname	host name and setting up	hostname hostname linuxpc
Pwd	pwd	Print the current directory path	pwd
dmesg		Display the detected hardware status during boot time [the file location is 'var/log/dmesg']	dmesg
init			=>init 0 =>init 1 =>init 2
mkswap	mkswap file_system	Used to format the partition used for swap space	mkswap /dev/sdX
swapon	i e	To activate the swap space	swapon -a /dev/sdX

swapoff file_system	To deactivate the swap partition	swapoff dev/sdX
mkfs.btrfs /dev/sdx: for btrfs file system  mkfs.ext2 /dev/sdx: for ext2 file system  mkfs.ext3 /dev/sdx:for ext3 file system  mkfs.ext4 /dev/sdx: for ext3 file system  mkfs.minix /dev/sdx:for minix file system	To format the partition this tools is used [more information about file system]	mkfs.ext2 -V /dev/sdb
Poweroff	Poweroff the machine	poweroff
halt	Another way of poweroff the machine	halt
whoami	Display the username which is currently logged in	whoami
wc <file_names> wc -m <file> : print the character in in the file wc -w <file> : print the word in in the file wc -l <file> : print the line in in the file</file></file></file></file_names>	lines, word count, byte and characters count in the files specified in the file arguments	
	mkfs.btrfs /dev/sdx: for btrfs file system  mkfs.ext2 /dev/sdx: for ext2 file system  mkfs.ext3 /dev/sdx:for ext3 file system  mkfs.ext4 /dev/sdx: for ext3 file system  mkfs.minix /dev/sdx:for minix file system  mkfs.xfs /dev/sdx:for xfs file system  Poweroff  halt  whoami  wc <file_names> wc -m <file>: print the character in in the file wc -w <file>: print the word in in the file wc -l <file>: print the line</file></file></file></file_names>	mkfs.btrfs /dev/sdx: for btrfs file system  mkfs.ext2 /dev/sdx: for ext2 file system  mkfs.ext3 /dev/sdx: for ext3 file system  mkfs.ext4 /dev/sdx: for ext3 file system  mkfs.minix /dev/sdx: for ext3 file system  mkfs.minix /dev/sdx: for minix file system  mkfs.minix /dev/sdx: for ext3 file system  mkfs.minix /dev/sdx: for minix file system  poweroff  Poweroff the machine  halt  Another way of poweroff the machine  whoami  Display the username which is currently logged in  wc <file_names>  wc -m <file>: print the character in in the file  wc -w <file>: print the word in in the file  wc -l <file>: print the line in in the file  wc -l <file>: print the line in in the file</file></file></file></file></file_names>

		logged in to the computer and what they are doing	
unix2dos	Unix2dos <text_file> [you may have to install the packages]</text_file>	Convert a Unix text file into DOS format	Unix2dos hello.txt
alias	Alias <string>='<target straing="">'</target></string>	Instructs the shell to replace one string with another string while executing the commands	alias sl='ls'
arch	arch	Display the computer architecture	arch
bg	bg	Used to send any foreground job to background	bg
cfdisk	cfdisk [you have to be the root to execute the command]	It displays or manipulates	sudo cfdisk
ср	cp <source_file> <target_destination></target_destination></source_file>	Used to copy a file or a group file from one destination to other	Cp hello.txt Downloads/hello.txt
echo	Echo <arguments></arguments>	Used to display line of text/ string that are passed as an argument	
eject	eject	Basically used for ejecting removable media especially cd-rom	eject
env	env	Display all the environment variable	env
fc	editor where you can list	Used to list edit or re execute the command that are typed in the interactive shell	
fdisk	fdisk <file_system></file_system>	Format disk as well as creating and manipulating disk partition table [more information in disk management chapter]	fdisk /dev/sdb
free	free	Displays the total amount of free space available	free

		I	
		along with the amount of	
		memory used and swap	
	i -	memory in the system	
lsblk	lksblk	I .	lsblk
		currently connected to your	
love o d	lana a d	system	la ma a al
Ismod	Ismod		Ismod
		modules that are currently loaded	
		loaded	
		it actually print the content	
		of the '/proc/modules' with a	
		nice format]	
Ispci	Ispci	Display the information	Ispci
,	1 -	about the currently	
		connected PCI Buses .	
		[list of devices that are	
		connected to the computer]	
Ishw	Ishw		Ishw
		information of the hardware	
		of the computer	
Iscpu	Iscpu		Iscpu
		information about the CPU	
grep	Li cata a pa a ati i paga siala	Diaglas, bactrages and its	l la atra arra atl a at
hoctnomootl	•	1 2	Hostnamectl set- hostname tanvir
hostnamectl	host and its properties	related settings also change hostname and its	
		related settings	
	hostnamectl set-	Telated Settings	
	hostname <hostname> :It</hostname>		
	will change the hostname		
	Ip <option> <command/></option>	Used for performing several	=>Ip addr show
ip	1	network administration	•
		tasks	
Isusb	Isusb	Used to display the	Isusb
		information about USB	
		buses and the devices	
		connected to them	_
man		Display the reference of the	
			man Isusb
		you using	man ping
grep			
ifconfig			
ping			

reboot		
sudo		
tee		
touch		
traceroute		
vi		
wget		
whatis		