

Basic Linux Command

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

directory on screen at a time

6) **cat <file_name> | more**
read any file with one screen
at a time

less

More <options>
<file_name>

It works like the more

command .it also give scroling =>dmesg | less -E
options =>dmesg | less -N

less -E : automatically exit
the first time it reaches end
of file.

=>dmesg | less -p
systemd

Less -f : forces non-regular
file to open.

=>cat file.txt | less -F

=>cat file.txt | less -g

=>cat file.txt | less -E

Less -F : exit if entire file
can be displayed on first
screen

less -g : highlight the string
which was found by last
search command

less -G : suppresses all
highlighting of strings found
by search commands
less -i : cause sears line
numbers

less -p <pattern> : it tells
less to start at the first
occurrence of pattern in the
file

less -s : causes consecutive
blank lines to be squeezed
into a single blank line to
ignore case

less -n : suppresses line
numbers

less -p <pattern> : it tells
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>	To display the content of the file	String file.txt
tree	Tree <directory> [you may have to tool with package manager]	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]	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>	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	Rmdir <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	Making directory	mkdir test mkdir -p test1/test2/test3
file	File <filename>	Display the file type	=>file file.txt file.txt: ASCII text
hwclock	hwclock	Display the Bios time	hwlock
ln	ln <option> <source_file> <shortcut_file>	Create a link of the source filename	=>ln -s main.txt soft.txt =>ln -s main.txt hard.txt
	ln -s : for creating soft link ln -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

History	history	Shows users command history =>history it will show the last 1000 command of the user you can set the limit if you like	
locate	Locate <file_name>	It will search the entire system for that file	=>locate file.txt
		[you need to apply the command 'updatedb' for getting latest entry]	
uname	uname -a : all information, in the following order	Show all the information about the kernel , OS and hardware-platform	[root@localhost vagrant]# uname -a
	uname -s :print the kernel name		Linux localhost.localdomain
	uname -n: print hostname		3.10.0- 957.12.2.el7.x86_64 #1
	uname -r: print the kernel release		SMP Tue May 14 21:24:32 UTC 2019
	uname -v : print the kernel version		x86_64 x86_64 x86_64 GNU/Linux
	uname -m : print the 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	For creating archive and extracting archive	[root@localhost vagrant]# tar -cvf arch test1
	tar -xvf : for extracting archive		file arch
			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>	It is used for uncompromising a compressed file	[root@localhost vagrant]# gunzip arch.gz
lsmod	lsmod	Show a list of the modules used by the kernel	lsmod
rmmod	rmmod <module_name> [you need to be a root user to perform this action] 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	Delete any module used by the kernel [not Recommended . don't do it unless you are absolutely sure what you are doing]	=>rmmod bluetooth =>rmmod iptable_nat
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	Show the process in a tree format.you can see the parent	

	[you have to install the psmisc package with the package manager]	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]	This work like exactly like the htop top command but with more options and user friendly environment [more information in process management chapter]	
renice	renice -n <priority> -p <pid>	Used for changing the priority of a process running on a system. [more info in process management chapter]	Renice -n 15 -p 2121
kill	Kill -<sigterm> -p pid	Used for terminating process for this purpose different 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	iostat -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	Shows the Cpu and I/O information [more information in process management Devices]	iostat

specific devices

iostat -m : generate statistics
in Megabyte

iostat -k : generate statistics
in Kilobyte

iostat -N : generate LVM
options

iostat -t: generate statistics
with timestamp

nfsiostat: Shows information
of NFS devices

sar	Sar	Shows the CPU and I/O statistics like the iostat command	sar
hostname	hostname : displaying ostname hostname <hostname>	Used for Displaying the host name and setting up the hostname	hostname hostname linuxpc
pwd	pwd	Print the current directory path	pwd

