

• ls	Lists all files and directories in the present working directory
• ls -R	Lists files in sub-directories as well
• ls -a	Lists hidden files as well
• ls -al	Lists files and directories with detailed information like permissions,size, owner, etc.
• cd or cd ~	Navigate to HOME directory
• cd ..	Move one level up
• cd	To change to a particular directory
• cd /	Move to the root directory
• cat > filename	Creates a new file
• cat filename	Displays the file content
• cat file1 file2 > file3	Joins two files (file1, file2) and (file3)
stores the output in a new file	
• mv file "new file path"	Moves the files to the new location
• mv filename new_file_name	Renames the file to a new filename
• sudo	Allows regular users to run programs with the security privileges of the superuser or root
• rm filename	Deletes a file
• man	Gives help information on a command
• history	Gives a list of all past commands typed in the current terminal session
• clear	Clears the terminal
• mkdir directoryname	Creates a new directory in the present working directory or a at the specified path
• rmdir	Deletes a directory
• mv	Renames a directory
• pr -x	Divides the file into x columns
• pr -h	Assigns a header to the file
• pr -n	Denotes the file with Line Numbers
• lp -nc , lpr c	Prints "c" copies of the File
• lp-d lp-P	Specifies name of the printer
• apt-get	Command used to install and update packages
• mail -s	'subject'
• -c	'cc-address'
• -b	'bcc-address'

- 'to-address' Command to send email
- mail -s "Subject"
- to-address < Filename Command to send email with attachment

File Permission commands

- ls -l to show file type and access permission
- r read permission
- w write permission
- x execute permission
- -= no permission
- Chown user For changing the ownership of a file/directory
- Chown user:group filename change the user as well as group for a file or directory

Environment Variables command

- echo \$VARIABLE To display value of a variable
- env Displays all environment variables
- VARIABLE_NAME= variable_value Create a new variable
- Unset Remove a variable
- export Variable=value To set value of an environment variable

User management commands of linux

- | | |
|---------------------------------------------------|-----------------------------|
| • sudo adduser username | To add a new user |
| • sudo passwd -l 'username'
password of a user | To change the |
| • sudo userdel -r 'username'
created user | To remove a newly |
| • sudo usermod -a -G GROUPNAME USERNAME
group | To add a user to a |
| • sudo deluser USER GROUPNAME
from a group | To remove a user |
| • finger
of all the users
in | Shows information
logged |
| • finger username
particular user | Gives information of a |

Networking command

- | | |
|----------------------------------------------------|---------------------------------------------------------|
| • SSH username@ip-address or hostname
using SSH | login into a remote Linux machine |
| • Ping hostname="" or =""
and host connections | To ping and Analyzing network |
| • dir
remote | Display files in the current directory of a
computer |
| • cd "dirname"
"dirname" on a remote computer | change directory to |
| • put file
computer | upload 'file' from local to remote |
| • get file
computer | Download 'file' from remote to local |
| • quit | Logout |

Process command

• bg	To send a process to the background
• fg	To run a stopped process in the foreground
• top	Details on all Active Processes
• ps	Give the status of processes running for a user
• ps PID	Gives the status of a particular process
• pidof	Gives the Process ID (PID) of a process
• kill PID	Kills a process
• nice	Starts a process with a given priority
• renice	Changes priority of an already running process
• df	Gives free hard disk space on your system
• free	Gives free RAM on your system

VI Editing Commands

• i	Insert at cursor (goes into insert mode)
• a	Write after cursor (goes into insert mode)
• A	Write at the end of line (goes into insert mode)
• ESC	Terminate insert mode
• u	Undo last change
• U	Undo all changes to the entire line
• o	Open a new line (goes into insert mode)
• dd	Delete line
• 3dd	Delete 3 lines
• D	Delete contents of line after the cursor
• C	Delete contents of a line after the cursor
	Press ESC key to end insertion.
• dw	Delete word
• 4dw	Delete 4 words
• cw	Change word

- x
 - r
 - R
- onward
- s
- continue to insert
- S
- at the beginning of the
- ~

Delete character at the cursor

Replace character

Overwrite characters from cursor

Substitute one character under cursor

Substitute entire line and begin to insert
line

Change case of individual character