

Command	Description
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 stores the output in a new file (file3)
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

Command	Description
<code>mkdir directoryname</code>	Creates a new directory in the present working directory or at the specified path
<code>rmdir</code>	Deletes a directory
<code>mv</code>	Renames a directory
<code>pr -x</code>	Divides the file into x columns
<code>pr -h</code>	Assigns a header to the file
<code>pr -n</code>	Denotes the file with Line Numbers
<code>lp -nc , lpr c</code>	Prints "c" copies of t
<code>lp-d lp-P</code>	Specifies name of the printer
<code>apt-get</code>	Command used to install and update packages
<code>mail -s 'subject' -c 'cc-address' -b 'bcc-address' 'to-address'</code>	Command to send email
<code>mail -s "Subject" to-address < Filename</code>	Command to send email with attachment

File Permission commands

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

Environment Variables command

Command	Description
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

Command	Description
sudo adduser username	To display value of a variable
sudo passwd -l 'username'	Displays all environment variables
sudo userdel -r 'username'	Create a new variable
sudo usermod -a -G GROUPNAME USERNAME	Remove a variable
sudo deluser USER GROUPNAME	To set value of an environment variable
finger	Gives information on all logged in user
finger username	Gives information of a particular user

Networking command

Command	Description
SSH username@ip-address or hostname	login into a remote Linux machine using SSH

Command	Description
Ping hostname="" or =""	To ping and Analyzing network and host connections
dir	Display files in the current directory of a remote computer
cd "dirname"	change directory to "dirname" on a remote computer
put file	upload 'file' from local to remote computer
get file	Download 'file' from remote to local computer
quit	Logout
telnet	make terminal connection to another host
ssh	secure shell terminal or command connection
rlogin	remote login to a Linux host
rsh	remote shell
curl	transfer data from a url
firefox	web browser
google-chrome	web browser

Process command

Command	Description
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

Command	Description
<code>nice</code>	Starts a process with a given priority
<code>renice</code>	Changes priority of an already running process
<code>df</code>	Gives free hard disk space on your system
<code>free</code>	Gives free RAM on your system

VI Editing Commands

Command	Description
<code>i</code>	Insert at cursor (goes into insert mode)
<code>a</code>	Write after cursor (goes into insert mode)
<code>A</code>	Write at the end of line (goes into insert mode)
<code>ESC</code>	Terminate insert mode
<code>u</code>	Undo last change
<code>U</code>	Undo all changes to the entire line
<code>o</code>	Open a new line (goes into insert mode)
<code>dd</code>	Delete line
<code>3dd</code>	Delete 3 lines
<code>D</code>	Delete contents of line after the cursor
<code>C</code>	Delete contents of a line after the cursor and insert new text. Press ESC key to end insertion.
<code>dw</code>	Delete word
<code>4dw</code>	Delete 4 words
<code>cw</code>	Change word
<code>x</code>	Delete character at the cursor
<code>r</code>	Replace character

Command	Description
R	Overwrite characters from cursor onward
s	Substitute one character under cursor continue to insert
S	Substitute entire line and begin to insert at the beginning of the line
~	Change case of individual character

VI Editing Commands

Command	Description
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 and insert new text. Press ESC key to end insertion.
dw	Delete word
4dw	Delete 4 words
cw	Change word
x	Delete character at the cursor
r	Replace character

Command	Description
R	Overwrite characters from cursor onward
s	Substitute one character under cursor continue to insert
S	Substitute entire line and begin to insert at the beginning of the line
~	Change case of individual character

Command	Description
file	determine file type
mv	move or rename files
find	find files
pwd	print working directory
grep	search file for regular expression
rm, rmdir	remove (unlink) files or directories
head	give first few lines
tail	print last lines from file
just	text justification program
touch	update access and modification times of a file
lpq	spool queue examination progra

Manipulating data

awk	pattern scanning and processing language
perl	data manipulation language
cmp	compare the contents of two files
paste	merge file data
comm	compare sorted data
sed	stream text editor
cut	cut out selected fields of each line of a file
sort	sort file data
diff	differential file comparator
split	split file into smaller files
expand, unexpand	expand tabs to spaces, and vice versa
tr	translate characters
gawk	pattern scanning and processing language
uniq	report repeated lines in a file
join	join files on some common field
look	find lines in sorted data

wc	count words, lines, and characters
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Compressed files

gzip	compress files
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zmore	file perusal filter for crt viewing of compressed text
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uncompress	uncompress files
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zcat	cat a compressed file
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gunzip	uncompress gzipped files
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zcmp, zdiff	compare compressed files
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Database Management

Command	Description
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sqlplus	run the Oracle SQL interpreter
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mysql	run the mysql SQL interpreter
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sqldeveloper	Oracle SQL Developer GUI interface
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mysql-workbench	GUI interface for MySQL
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