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| **COMMAND** | **PROPERTY** | **USAGE** |
| pwd | To show the path of current directory | PWD |
| mkdir | To create new directory | mkdir filename |
| rmdir | Remove the folder | rmdir filename |
| ls | list all contents in directory | ls |
| cd | change directory | cd desktop |
| cp | to copy the files | cd source destination |
| mv | move the file to other location | mv filename destination\_path |
| head | to display the **first** 10 lines of content in the file | head sample.txt |
| tail | to display the **last** 10 lines of content in the file | tail sample.txt |
| su | give access to other user | su user\_name |
| id | show the id of user or group | id |
| sudo | make user specific & allow access to restricted data | sudo ls |
| useradd | add another user to the server | sudo adduser user\_name |
| passwd | to enter or change the password of user | passwd user\_name |
| comm. | to compare between two files | comm file1 file2 |
| tr | used to make word of lower case to uppercase | tr ‘ajdf’ ’AJDF’ |
| sort | to sort the contents in alphabetical order | sort marks.txt |
| echo | to show the details of given request | echo “this is for sample” |
| w | to show currently logged in users | w |
| find | to find file in directory: (.) for current (/) for root dir | find . –name “name.txt” |
| date or time | to display date or time respectively | date or time |
| cal | to show calendar | cal |
| clear | to clear the terminal screen | clear |
| exit | to exit from terminal | exit |
| mail | to send mail from the terminal | mail “text ” mailID |
| host | to give the ip address or domain name | host google.com or host 192.356.12 |
| who | display who is logged on recently | who |
| ssh | login to remote linux machine | ssh user\_name@ip or hostname |
| put | to upload from local machine | put file\_name |
| get | to download to local machine | get file\_name |
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**Most commonly used commands**

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| **COMMAND** | **PROPERTY** | **USAGE** |
| ls – R | to list all files in sub directory as well | ls -r |
| ls - a | to show hidden files as well | ls -a |
| ls -al | to show files with all information like size,date | ls -al |
| cd.. | to move back to one step previous directory | cd.. |
| cat | to show the contents of the file | cat file\_name |
| cat > | to join two files 1 and 2 and store in 3rd file | cat file1 file2 > file 3 |
| history | to show recently used commands | history |
| echo $user | shows the name of the user | echo $user |
| echo $path | shows the details of user home path | echo $path |
| finger | give short data of user like name, path, login time | finger user\_name |
| free -h | to show the details of storage in human language | free -h |
| shutdown | to shutdown our linux machine | shutdown, shutdown 21:00 |
| whoami | to show who is currently logged in | whoami |
| lshw | to show details of hardware configuration | lshw |
| cat >> | to merge 2 files | cat file1>>file2 |
| gpg -c | to encrypt the file | gpg -c file\_name |
| gpg | to decrypt the file | gpg file\_name |
| tar cf | to archiving the file | tar cf newfile.tar file.txt |
| tar xf | to extract the archived file | tar xf newfile.tar |
| gzip | to compress the file to .gz extension file | gzip file\_name |
| gunzip | to extract the compressed file | gunzip file\_name.gz |
| userdel | to delete user | userdel user\_name |
| usermod | to modify the user information | usermod user\_name |
| yum install | to install a package to linux using yum packager | yum install package\_name.rpm |
| dnf install | to install a package to linux using dnf packager | dnf install package\_name.rpm |
| apt -get | to install a package to linux using apt packager | apt -get package\_name |
| rpm -i | to install package from local machine | rpm -I package\_name.rpm |
| rpm -e | to remove the package | rpm -e package\_name.rpm |
| ps | take snapshot of running program | ps |
| top | to show all running processes | top |

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| **COMMAND** | **PROPERTY** | **USAGE** |
| kill | to kill the running process | kill process\_ID |
| pkill | kill the process using process name | pkill process\_name |
| uname –a | to show details about kernel | uname –a |
| uname -r | to show details about system | uname -r |
| uptime | show for how long system is been running | uptime |
| du –sh | show disk usage by files In current directory | du -sh |
| du –ah | show disk usage by files In all directories | du -ah |
| ip addr show | to show ip address of network | ip addr show |
| ip config | to show ip address of all interfaces connected | ip config |
| whois | show more information about domain | whois domain\_name |
| dig | show DNS information about domain | dig domain\_name |
| wget | to download from domain | wget file\_name |
| alias | create customized commands | alias home=’cd/user/desktop ’ |
| cat | to display the contents of the file | cat filename.txt |
| cmp | compare b/w two like files byte-by-byte | cmp file1 file2 |
| comm | compare b/w two like files line-by-line | comm file1 file2 |
| eject | remove eject able media from machine like cd,dvd | eject |
| expr | to evaluate the expression | expr 20+30\*4/5 |
| factor | to show prime factors of the number | factor 20 |
| free –h | show free space available in human readable format | free -h |
| wall | send t message to all t users connected to machine | wall ‘’ this message I sent using wall” |
| whatis | shows short description about used command | whatis wall, whatis cat, whatis tar |
| yes | repeatedly shows msg till terminal Is killed forcefully | yes “it is example of yes command” |
| chmod | change access permissions | chmod 655 file.txt,chmod u+s text.txt |
| chgrp | change group ownership:file.txt ownership to name | chgrp name file.txt |
| break | break the n’th loop | break n |
| continue | continue next iteration of the n’th loop | continue n |
| curl | transfer data from or to the server | curl option domain |
| ddrescue | data recovery tool for damaged data | ddrescue damagedfile destination |
| link | create link to the file | link name.txt |

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| **COMMAND** | **PROPERTY** | **USAGE** |
| bg | makes running process stop & sends to background | bg processed |
| fg | brings the stopped process to foreground and starts | fg processed |
| logout | exit from the login shell and return to n’th parent | logout n |
| man | gives help manual based on options | man option |
| reboot | reboots the system | reboot |
| scp | securely copy data from domain | scp destination\_path user@host |
| timeout | run a command only for limited time and kills it | timeout duration command\_to\_run |
| trap | only runs when shell gets signals from hardware | trap options |
| wait | wait until the process completes | wait processID |
| write | write a message to particular user | write mary “message” |
| xdg-open | to open a file in user preferred application | xdg -open file, xdg –open url |
| !! | runs the last command used | !! |
| !$ | use last word of previous command | !$ |
| !\* | runs previous command except last word | !\* |
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| ***keyboard shortcut keys*** | ***action*** |
| ctrl + c | **kills** the process running in terminal |
| ctrl + z | **stop** the running process, the can run using fg |
| ctrl + w | cut **one word before** cursor and add it to clipboard |
| ctrl + u | cut part of **line before** cursor and add it to clipboard |
| ctrl + k | cut part of **line after** cursor & add it to clipboard |
| ctrl + y | **paste** from the clipboard |
| ctrl + r | **recall** previous command |
| ctrl + o | **runs the last** recalled command |
| ctrl + g | **exit command history** without running command |
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