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| Commands | description |
| /var/log | Log files |
| /dev EG: /dev/sda | Special Device Files for both hardware and software |
| /usr/bin | Exe for all users |
| /usr/sbin | Exe for superusers |
| /etc | Config files |
| /tmp | Temporary files. Life: till next boot or 10 days. |
| /var/tmp | Life: Forever |
| $ free -m/k | Amount of free and used physical and swap memory |
| /sys-- /block /vda or sda | Hardware info( Partition info etc.) life: till next boot |
| /proc – /cpuinfo | State of the system. Life: till next boot |
| $tload | Cpu usage % current,5min,10min |
| $mkdir -p {d1/{x,y},d2/{a,b}} | Make multiple directories |
| Absolute path | Always from Root |
| Relative path | Seeking to move current position |
| $touch a.txt | Create a file. Also time stamp of file is update when already file exists |
| $file a.txt | Display the file type |
| $ls -l | More info about the file and directories |
| $echo “ Hi” < a.txt | Write into the file directly |
| $cp source.txt desitination.txt | Copies the file and directory. With -r it recursively copies (directories) |
| $rm | Remove files. -f forcefully remove. “-i” ask user for confirmation |
| $rmdir | Can remove only empty directory. With -r it deletes even with some content |
| $mv source.txt dest.txt | Moving/Renaming the file. |
| $df -h | Disk Usage. 1Block = 4k |
| User (UID) | Super/root(0) system(1-499) ordinary(500 and more) |
| $id | Info about the group id and user id |
| $useradd | Create user |
| $userdel | Delete User. With -r deletes home directory of the user and mail spool |
| $chown trainee a.txt | Changing ownership of the file (root) |
| $groups | To display all the groups the current user belongs |
| $chgrp | Change the group. |
| $usermod | -l lock user -G Sec Grp -g primary grp -e expiry date for dislable -d change home directory -m -d to move the home directory -f days for passd expiry and the disable account |
| $chmod | Change the ownership  Ugo+rwx ; u+x ; u-x |
| RWX | Directory : View, Create/Delete,navigate |
| $echo $SHELL | To know the type of shell. Shell interface btwn user and kernel space |
| $date $calendar | Diplay date with time . Calendar |
| Std in ( 0 or <) out ( 1 or > ) | Error ( 2 or 2> ) eg : ls yyyy 2> a.txt |
| $ find / - name ‘.\*txt’ &> a.txt | Both success and failure message is stored |
| $cat /etc/services |wc -l | Wc – l word count and gives number of lines -m charcter counts -w word counts  grep prints line matching pattern |
| $grep I a.txt | Return s all the lines with I -v does negation operation |
| Grep -A 5 this a.txt | Displays 5 lines after ( -A) this is found in the line. For before ( -B ) |
| Grep -E ‘(color[u]?r)’ a.txt | Or grep -E ‘(color | colour )’ a.txt |
| Grep -E ‘(colou\*r)’ a.txt(o to..) | Grep -E ‘(colou+r)’ a.txt ( 1 to any) // grep -E ‘(color{3})’ a.txt |
| Grep -E ‘(colo.\*)’ | Grep -E [[ : digit : ]] a.txt or [0123456789] |
| Cat/etc/passwd|grepnologin$ | $ls -l /etc | grep ^-|tr -s ‘ ‘|cut -d ‘ ‘ -f5,9|sort -n|head -n |
| Ls yyy 2>&1 |wc -l | Carrying error through pipe |
| Ping 10.101.0.0 | Echo $? Op: 0 means success and rest is failure |
| Wc -l < \etc\services | Similar to cat \etc\services | wc -l |
| $head | Default first 10 line displayed |
| $less vs $more(less feaures) | Less – search by /entries Note: #root and $user |
| Grep -n -r I /home | -n to display the line number and -r to recursively search in the directory |
| #sed -n ‘1,2p’ a,txt | Stream editor for filtering and transforming text. |
| $cmp/diff source dest | Cmp give op in size/lines and diff five direct difference of text |
| $diff source dest >temp | $patch dest temp . Now dest is changed to match with the source |
| $sort -n -k 2 - t “,” a.txt | -n numerical sort -k 2 field number -t ‘,‘ it tis nothing but a delimiter |
| $ top (Task Manager) | $ps a (foreground) x(background) |
| $pgrep or ps ax|grep tail | Searching for the tail process |
| #kill -9/15 pid | 9 forceful terminate and 15 is default to signal terminate |
| #killall -u username | Effectively logout the user |
| Renice priority pid | Priority -20 to +19 and -20 is highest |
| Scheduling 1.temp 2.perm | $at 1235 (temp) $cron (perm) |
| $at rm id | To remove schedule. At -l list all. At now+5minutes/1day |
| Which bash | Gives the location of executable |
| $crontab -e | Open the file to make perm changes /tmp/crontab. -e displays editors to open the text  -r remove all |
| $export EDITOR=nano | Changing edotor |
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