* **Getting information about Linux Compiter**

man command for show the use of the other command

ex. man cat

2 fdisk -l

3 sudo su

4 man sh

5 echo $SHELL

6 echo $0

7 uname

8 uname -a

9 uname -r

10 uptime

11 uptime -p

12 w

13 history

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=================================================> linux <=================================================

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======================> ~[process stream and id of it]~ ! ==========> standered data streams <==========

!

1---> to see which process is on going in linux command that to be use ! 1---> standered in -----[[id-o]] [stdin]

ans. [ps] [ to see the single process that has been carried out] ! that show the process that we are input as commands

[ps -e] [to see the all process that has been carried out] !

! 2---> standered out ----[[id-1]] [stdout]

2---> to see the user name and ip of the machine ! that show the process that completed and we get out put after commands get run

ans. [hostname] -------[to see the system name] !

[uname] ! 3---> standered error --[[id-2]] [stderr]

[uname -ip] [to see the ip] ! that show the error when command get wrong after running the command

[uname -a] [to see the all configuration of machine] !

!

!

3---> to see the all file with type of fiel we suppose to be use !

ans. [ls -f ] [it show the all files with their types] !

4---> to see the all processes that has been carried out in hoal system we are using

ans. [top] [that helps to see the all processes of system]

[htop] [is a configuration management service or software that handle the all process in system that can be start the process or it can be kill the process as per specific req.]

======================> ~[linux file creator commands]~

1---> to create the file there are five commands that has been use

ans. [cat] ------------[it is also uses for the combine all the files] [it is also use for to see the files]

[touch] ----------[it is also uses to seet the file state and data]

[vin or vi] ------[it also use to make edti in already existing files]

[nano] -----------[it is also a file editor]

[echo] -----------[it is also use to display the any masseges for the who are connected in single machine]

2---> to create the directory we are using

ans. [mkdir <file name that we want to gives>]

[ex. mkdir hiten]

3---> to change the directory

ans. [cd <directory name>]

[ex. cd hiten]

[cd home/ec2-user/hiten] ---[to directly change the root directory to the hiten directory by the absolute path]

[cd /hiten] ----------------[to change the directory with absolute path with short term]

[cd ..] --------------------[to go back to parent directory or to cahnge the sub directory to the parent directory]

[cd ../../..] --------------[to go back to the specific parent directory in a single command]

[cd] -----------------------[to go in main top root level directory]

4---> to creat the parent directory directly with including sub directory

ans. [mkdir dir1 dir2 dir3] -----------[to create the multipal directory in single command]

[mkdir -p dir1/dir2/dir3] --------[here in this case dir1 is parent directory and dir2 is sub dir and dir3 is sub dir of dir2]

======================> ~[linux user/group managemant commands]~

1---> to add user in and to see the user id and details

ans. [useradd]

[ex. useradd hiten]

[userid]

2---> to add group

ans. [groupadd <name of the grp that we want to give]

[ex. groupadd mr9bady]

3---> to add any user in group

ans. [gpasswd -a hiten mr9bady] ----------[to add single user in group]

[gpasswd -m hiten,hitlo mr9bady] ----[to add multi user in group]

4---> to see the user in system

ans. [car /etc/passwd]

[cat /etc/group | grep "hiten"] -----[to be used fore see the user in group of perticular user name]

5---> to delete the user from grop or to remove the user

ans. [userdel -r hiten] ------------------[to delete user and all its information]

[userdel -f hiten] ------------------[to delete the user force fully]

[userdel hiten] ---------------------[to delet the user that we want to delete]

[gpasswd -d <user> <group>] ---------[to remove the user from the perticular group]

[ex. gpasswd -d hiten mr9bady]

6---> to add the group in system

ans. [groupadd <name of the group>]

[ex. groupadd mr9bady]

7---> to see the group in system

ans. [cat /etc/group]

8---> to see the how many grouop mambers are in group

ans. [cat /etc/group | grep "hiten"] -----[here in this case we are seeing the mambers of hiten group]

======================> ~[to create link and zip and tar of files]~

1---> to create the shoft link of any file

ans. [ln -s <file of that we want to create soft link> <file name that we want to give>]

[ex. ln -s hiten hitensoft1]

2---> to create the hard link of any file

ans. [ln <file name of that we want to create the hard link> <fiel name that we want to give>]

[ex. ln hitne hitenhard1]

3---> to create the tar of any files

ans. [tar -cvf dir1.tsr dir1] ---------------------[here in this case dir1 is tar dir that we want to convert in tar file]

[tar -xvf dir1.tar] --------------------------[it is use to untar the any tar file as per above here dir1 is tar file]

4---> to make zip of any file we are use command that

ans. [gzip <file name that we want to zip>]

[ex. gzip hiten]

[gunzip <file that we want to unzip>]

[ex. gunzip hiten]

======================> ~[ install and remove and manage of any software or services ]~

1---> to install any service or software in system we are using

ans. [yum install <service or software we want to install>]

[ex. yum install git] ------------------------[here in this case we are installing git software]

[ex. yum install httpd] ----------------------[here in this case we are installing httpd services]

2---> to remove any service or any software from system

ans. [yum remove <software or service that we want to remove>]

[ex. yum remove git] -------------------------[here in this case we are removing git from system]

[ex. yum remove httpd] -----------------------[here in this case we are removing httpd services]

3---> to see the service status or software status,start,stop

ans. [service <software that we want to check> status]

[ex.] [service httpd status]

[service httpd start]

[service httpd stop]

4---> to find the any service or any sofware in system we are using

ans. [which <sofware that we want to find>]

[ex. which git] ------------------------------[here in this case we are finding git software]

5---> to install any software from internat we are using

ans. [wget <url of sofware that we want to download.]

[ex. wget <chef link>] -----------------------[in this case we are downloading chef sofware]

======================> ~[ change access of user,group and other party ]~

========> ~ numeric base system we are using numeric mode of changes in access point of group,user and other~

for that we are use the specific read wright and exicute numaric number for these three antities

that could be for read access -------[[4]]

for write access ------[[2]]

for exicute access ----[[1]]

the total sum of these three antity show the acces of read write and exicute as example is given below

ex. drwxrwxrwx -------[it is shows the three permission of user grp and other]

[here in this case full permissions is given to the all three user grp and other]

ex. drwxr\_x\_wx -------[here in this case read write and exicute permission is only given to the user and other two has only two access of read and exicute and

write and exicute for grp and other like wise]

ex. drwxrwxrwx -------[herer the access mode of all three antities are 777]

ex. drwx\_wxr\_x -------[here the access mode of all three antitied are 735]

[here the user has all access like read write and exicute but as group has write and exicute permission only and other has read and exicute

permissions only]

1---> to cahnge access mode of read,write and exicute of user,group and other of any file based on numerical system

ans. [chmod 777 hitlo file1] [here in this case hitlo is user and file1 is file that has to be changed access and given to hitlo full permission of rwx]

2---> to change the owner of any file we are using

ans. [chown hitlo file1] [here in this case hitlo is user to we want to give the access of file1]

3---> to change the group access of any file

ans. [chgrp mr9bady file1] [here in this case the group of mr9bady has been changed of file1]

========> ~cess mode change bu the use of u,g and q~

here u - user

g - group

q - other

note ===> the only difference between the numeric system and alphabatical system is in this case we are adding and substracting oder to requirement of user grp and other in access point

here is the example of alphabatical system

ex. drwxr\_xr\_x -- chmod g+w,q+w file1 ----------[here in this case we gives the access of write to group and other]

-- chmod u-w,g+w,q-x file1 ------[here in this case we are removing the write access from user and giving write access to group and removing exicute access

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