rm file-nme <-- to delete a file wwith prompt with prompt

```
syntax:
rm file-nme
example:
[root@jenkins opt]# ll
total 0
-rw-r--r-. 1 root root 0 Apr 29 10:17 cloudgen10
-rw-r--r-. 1 root root 0 Apr 29 10:17 cloudgen2
-rw-r--r-. 1 root root 0 Apr 29 10:17 cloudgen3
-rw-r--r-. 1 root root 0 Apr 29 10:17 cloudgen4
-rw-r--r-. 1 root root 0 Apr 29 10:17 cloudgen5
-rw-r--r-. 1 root root 0 Apr 29 10:17 cloudgen6
-rw-r--r-. 1 root root 0 Apr 29 10:17 cloudgen7
-rw-r--r-. 1 root root 0 Apr 29 10:17 cloudgen8
-rw-r--r-. 1 root root 0 Apr 29 10:17 cloudgen9
[root@jenkins opt]# rm cloudgen2
rm: remove regular empty file 'cloudgen2'? y
[root@jenkins opt]# ll
total 0
-rw-r--r-. 1 root root 0 Apr 29 10:17 cloudgen10
-rw-r--r-. 1 root root 0 Apr 29 10:17 cloudgen3
```

```
-rw-r--r-. 1 root root 0 Apr 29 10:17 cloudgen4
```

[root@jenkins opt]#

rm file-nme file-nme <-- to delete multiple files with prompt

## [root@jenkins opt]# ll

#### total 0

```
-rw-r--r-. 1 root root 0 Apr 29 10:17 cloudgen10
```

-rw-r--r-. 1 root root 0 Apr 29 10:17 cloudgen3

-rw-r--r. 1 root root 0 Apr 29 10:17 cloudgen4

-rw-r--r-. 1 root root 0 Apr 29 10:17 cloudgen5

-rw-r--r-. 1 root root 0 Apr 29 10:17 cloudgen6

-rw-r--r-. 1 root root 0 Apr 29 10:17 cloudgen7

-rw-r--r-. 1 root root 0 Apr 29 10:17 cloudgen8

-rw-r--r-. 1 root root 0 Apr 29 10:17 cloudgen9

[root@jenkins opt]# rm cloudgen3 cloudgen4 cloudgen7

rm: remove regular empty file 'cloudgen3'? y

rm: remove regular empty file 'cloudgen4'? y

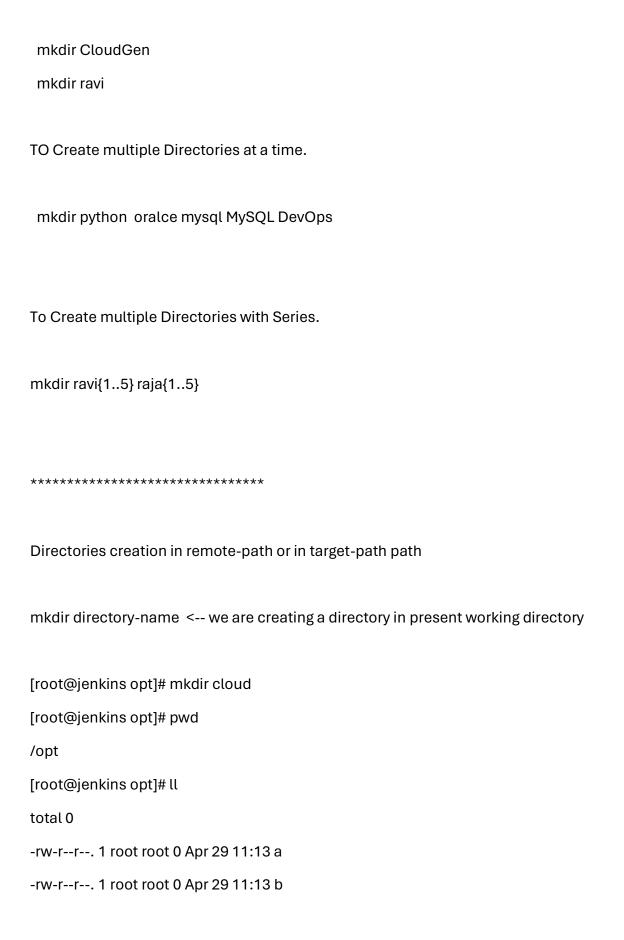
rm: remove regular empty file 'cloudgen7'? y

```
[root@jenkins opt]# ll
total 0
-rw-r--r-. 1 root root 0 Apr 29 10:17 cloudgen10
-rw-r--r-. 1 root root 0 Apr 29 10:17 cloudgen5
-rw-r--r-. 1 root root 0 Apr 29 10:17 cloudgen6
-rw-r--r-. 1 root root 0 Apr 29 10:17 cloudgen8
-rw-r--r-. 1 root root 0 Apr 29 10:17 cloudgen9
[root@jenkins opt]#
To delete a file or files without prompt.
to delete single file
syntax rm -f file-nme
example:
[root@jenkins opt]# ll
total 0
-rw-r--r-. 1 root root 0 Apr 29 10:17 cloudgen10
-rw-r--r-. 1 root root 0 Apr 29 10:17 cloudgen5
-rw-r--r-. 1 root root 0 Apr 29 10:17 cloudgen6
-rw-r--r-. 1 root root 0 Apr 29 10:17 cloudgen8
```

-rw-r--r-. 1 root root 0 Apr 29 10:17 cloudgen9

```
[root@jenkins opt]# rm -f cloudgen5
[root@jenkins opt]# ll
total 0
-rw-r--r-. 1 root root 0 Apr 29 10:17 cloudgen10
-rw-r--r-. 1 root root 0 Apr 29 10:17 cloudgen6
-rw-r--r-. 1 root root 0 Apr 29 10:17 cloudgen8
-rw-r--r-. 1 root root 0 Apr 29 10:17 cloudgen9
[root@jenkins opt]#
To delete multiple files without prompt.>!
syntax rm -f file-nme file-nme file-nme.. nth file-nme
example:
[root@jenkins opt]# ll
total 0
-rw-r--r. 1 root root 0 Apr 29 10:17 cloudgen10
-rw-r--r-. 1 root root 0 Apr 29 10:17 cloudgen6
-rw-r--r-. 1 root root 0 Apr 29 10:17 cloudgen8
-rw-r--r-. 1 root root 0 Apr 29 10:17 cloudgen9
[root@jenkins opt]#
[root@jenkins opt]# rm -f cloudgen9 cloudgen8 cloudgen6
[root@jenkins opt]# ll
```

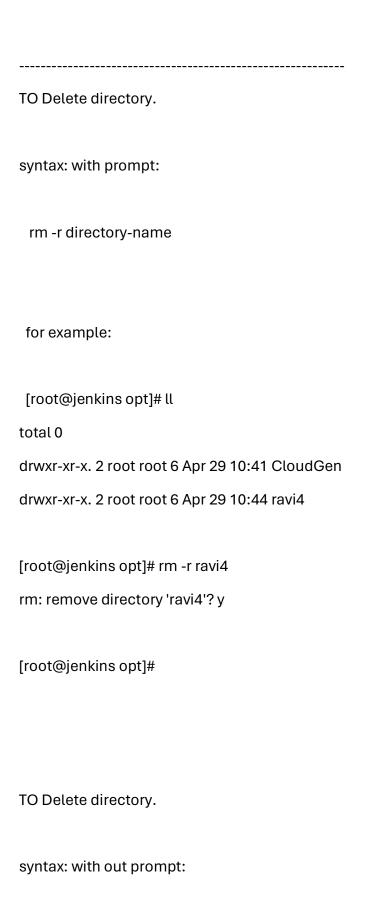
total 0
-rw-rr 1 root root 0 Apr 29 10:17 cloudgen10
[root@jenkins opt]#
to Delete All Files at a time:
example:
rm -f * < by this command we can delete all files at a time from present working
directory.
Working With directory
To Create a directory
syntax:
mkdir directory-name or Directory-Name (lower caser or Upper Case)
example:



```
-rw-r--r-. 1 root root 0 Apr 29 11:13 c
drwxr-xr-x. 2 root root 6 Apr 29 11:18 cloud
-rw-r--r-. 1 root root 0 Apr 29 11:13 d
mkdir directory-name <target-path/target-directory/destination-path>
for example:
[root@jenkins opt]# ll /root/
total 4
-rw----. 1 root root 1034 Mar 16 10:23 anaconda-ks.cfg
[root@jenkins opt]#
[root@jenkins opt]# mkdir /root/cloud
[root@jenkins opt]# ll /root/
total 4
-rw----. 1 root root 1034 Mar 16 10:23 anaconda-ks.cfg
```

drwxr-xr-x. 2 root root 6 Apr 29 11:18 cloud

[root@jenkins opt]#



```
rm -r directory-name
for example:
[root@jenkins opt]# ll
total 0
drwxr-xr-x. 2 root root 6 Apr 29 10:41 CloudGen
drwxr-xr-x. 2 root root 6 Apr 29 10:42 DevOps
drwxr-xr-x. 2 root root 6 Apr 29 10:44 ravi3
[root@jenkins opt]# rm -rf ravi3
[root@jenkins opt]# ll
total 0
drwxr-xr-x. 2 root root 6 Apr 29 10:41 CloudGen
drwxr-xr-x. 2 root root 6 Apr 29 10:42 DevOps
[root@jenkins opt]#
to delete multiple Directories at a time:
```

example:

# [root@jenkins opt]# ll

## total 0

drwxr-xr-x. 2 root root 6 Apr 29 10:41 CloudGen

drwxr-xr-x. 2 root root 6 Apr 29 10:42 DevOps

drwxr-xr-x. 2 root root 6 Apr 29 10:42 mysql

drwxr-xr-x. 2 root root 6 Apr 29 10:42 MySQL

drwxr-xr-x. 2 root root 6 Apr 29 10:42 oralce

drwxr-xr-x. 2 root root 6 Apr 29 10:42 python

drwxr-xr-x. 2 root root 6 Apr 29 10:44 raja1

drwxr-xr-x. 2 root root 6 Apr 29 10:44 raja2

drwxr-xr-x. 2 root root 6 Apr 29 10:44 raja3

drwxr-xr-x. 2 root root 6 Apr 29 10:44 raja4

drwxr-xr-x. 2 root root 6 Apr 29 10:44 raja5

drwxr-xr-x. 2 root root 6 Apr 29 10:41 ravi

drwxr-xr-x. 2 root root 6 Apr 29 10:44 ravi1

drwxr-xr-x. 2 root root 6 Apr 29 10:44 ravi2

[root@jenkins opt]# rm -rf MySQL ravi

[root@jenkins opt]# ll

total 0

drwxr-xr-x. 2 root root 6 Apr 29 10:41 CloudGen

drwxr-xr-x. 2 root root 6 Apr 29 10:42 DevOps

drwxr-xr-x. 2 root root 6 Apr 29 10:42 mysql

drwxr-xr-x. 2 root root 6 Apr 29 10:42 oralce

drwxr-xr-x. 2 root root 6 Apr 29 10:42 python drwxr-xr-x. 2 root root 6 Apr 29 10:44 raja1 drwxr-xr-x. 2 root root 6 Apr 29 10:44 raja2 drwxr-xr-x. 2 root root 6 Apr 29 10:44 raja3 drwxr-xr-x. 2 root root 6 Apr 29 10:44 raja4 drwxr-xr-x. 2 root root 6 Apr 29 10:44 raja5 drwxr-xr-x. 2 root root 6 Apr 29 10:44 ravi1 drwxr-xr-x. 2 root root 6 Apr 29 10:44 ravi2

[root@jenkins opt]# rm -rf raja5 raja3

[root@jenkins opt]# ll

total 0

drwxr-xr-x. 2 root root 6 Apr 29 10:41 CloudGen drwxr-xr-x. 2 root root 6 Apr 29 10:42 DevOps drwxr-xr-x. 2 root root 6 Apr 29 10:42 mysql drwxr-xr-x. 2 root root 6 Apr 29 10:42 oralce drwxr-xr-x. 2 root root 6 Apr 29 10:42 python drwxr-xr-x. 2 root root 6 Apr 29 10:42 python drwxr-xr-x. 2 root root 6 Apr 29 10:44 raja1 drwxr-xr-x. 2 root root 6 Apr 29 10:44 raja2 drwxr-xr-x. 2 root root 6 Apr 29 10:44 raja4 drwxr-xr-x. 2 root root 6 Apr 29 10:44 ravi1 drwxr-xr-x. 2 root root 6 Apr 29 10:44 ravi2 [root@jenkins.opt]#

```
example:
```

rm -rf file-nme{starting-number .. ending\_number }

for example:

[root@jenkins opt]# ll

total 0

drwxr-xr-x. 2 root root 6 Apr 29 10:41 CloudGen

drwxr-xr-x. 2 root root 6 Apr 29 10:42 DevOps

drwxr-xr-x. 2 root root 6 Apr 29 10:42 mysql

drwxr-xr-x. 2 root root 6 Apr 29 10:42 oralce

drwxr-xr-x. 2 root root 6 Apr 29 10:42 python

drwxr-xr-x. 2 root root 6 Apr 29 10:44 raja1

drwxr-xr-x. 2 root root 6 Apr 29 10:44 raja2

drwxr-xr-x. 2 root root 6 Apr 29 10:44 raja4

drwxr-xr-x. 2 root root 6 Apr 29 10:44 ravi1

drwxr-xr-x. 2 root root 6 Apr 29 10:44 ravi2

[root@jenkins opt]# rm -rf raja{1..4}

[root@jenkins opt]# ll

total 0

drwxr-xr-x. 2 root root 6 Apr 29 10:41 CloudGen

drwxr-xr-x. 2 root root 6 Apr 29 10:42 DevOps

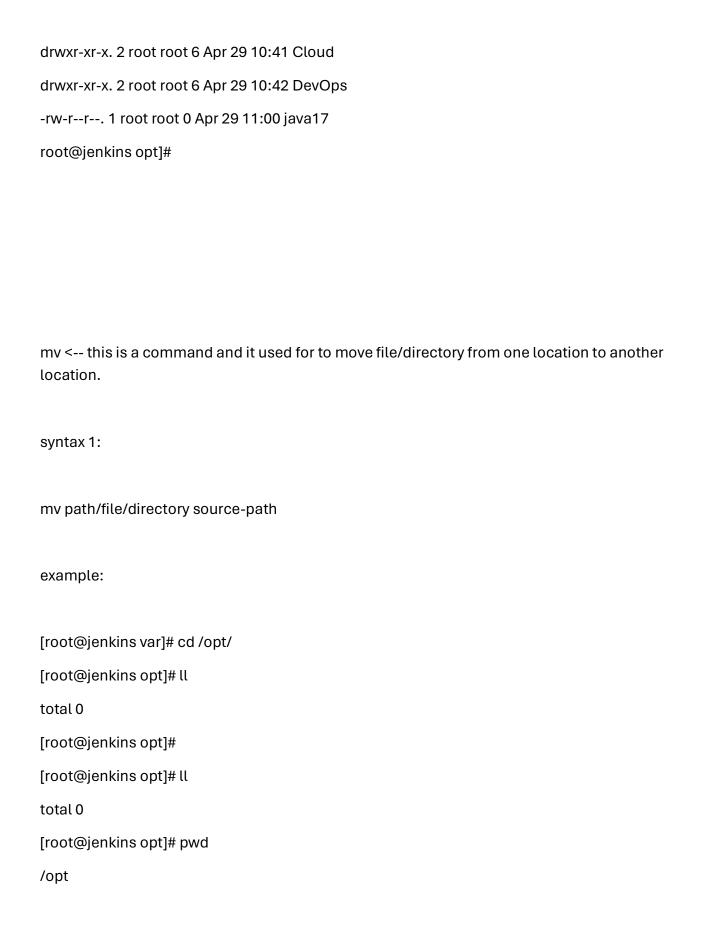
drwxr-xr-x. 2 root root 6 Apr 29 10:42 mysql

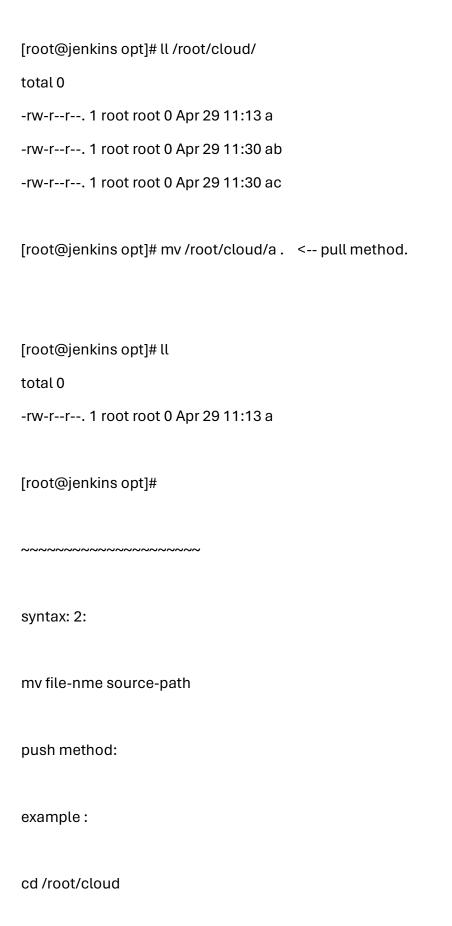
drwxr-xr-x. 2 root root 6 Apr 29 10:42 oralce

drwxr-xr-x. 2 root root 6 Apr 29 10:42 python drwxr-xr-x. 2 root root 6 Apr 29 10:44 ravi1 drwxr-xr-x. 2 root root 6 Apr 29 10:44 ravi2 [root@jenkins opt]# mv <-- this is a command and it used for to rename file/directory syntax: to file rename. mv old/existed-file new-file-name syntax: to directory rename. mv old/existed-directory-name new-directory-name for example: [root@jenkins opt]# ll total 0 drwxr-xr-x. 2 root root 6 Apr 29 10:41 CloudGen drwxr-xr-x. 2 root root 6 Apr 29 10:42 DevOps -rw-r--r-. 1 root root 0 Apr 29 11:00 java

[root@jenkins opt]# mv java java17

```
[root@jenkins opt]# ll
total 0
drwxr-xr-x. 2 root root 6 Apr 29 10:41 CloudGen
drwxr-xr-x. 2 root root 6 Apr 29 10:42 DevOps
-rw-r--r-. 1 root root 0 Apr 29 11:00 java17
[root@jenkins opt]#
TO Rename directory:
for example:
[root@jenkins opt]# ll
total 0
drwxr-xr-x. 2 root root 6 Apr 29 10:41 CloudGen
drwxr-xr-x. 2 root root 6 Apr 29 10:42 DevOps
-rw-r--r-. 1 root root 0 Apr 29 11:00 java17
[root@jenkins opt]# mv CloudGen/ Cloud
[root@jenkins opt]# ll
total 0
```





# [root@jenkins opt]# cd /root/cloud/

[root@jenkins cloud]# ll

total 0

-rw-r--r-. 1 root root 0 Apr 29 11:30 ab

-rw-r--r-. 1 root root 0 Apr 29 11:30 ac

-rw-r--r-. 1 root root 0 Apr 29 11:30 ad

[root@jenkins cloud]# mv ab /opt/

[root@jenkins cloud]# ll /opt/

total 0

-rw-r--r-. 1 root root 0 Apr 29 11:13 a

-rw-r--r-. 1 root root 0 Apr 29 11:30 ab

[root@jenkins cloud]# ll

total 0

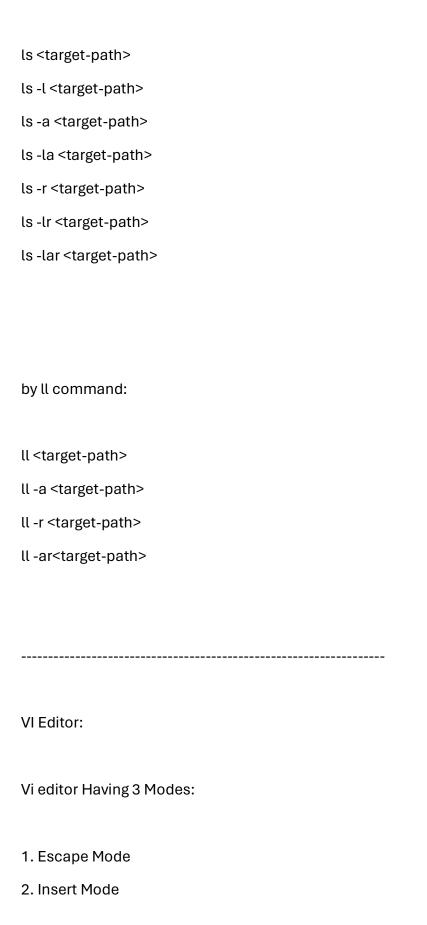
-rw-r--r-. 1 root root 0 Apr 29 11:30 ac

-rw-r--r-. 1 root root 0 Apr 29 11:30 ad

-rw-r--r-. 1 root root 0 Apr 29 11:30 ae

[root@jenkins cloud]#

syntax: 3
mv <source-path> <destination-path></destination-path></source-path>
for example:
cd /var
mv /opt/file-name or directory-name source-path
^^^^^^
cp command:
this command used for to copy file/files/directory/Directories to one=path to another-path or to duplicate with new-names on same-data in same-path.
cd - < This command used for to move previous path
List all/files/Directories from out side present working directory
syntax:



3. Extended Escape Mode < here we can apply commands
1. by Default vi enter into Escape mode.
by this Escape mode we can come out from vi editor
TO Enter into the VI Editor for Write/Replace/Edit/Modify/Udate/Delete the Content/Text/Data in file we should enter into Insert mode.
If We want to enter into Insert Mode!
we have to apply below keys.
i This key having 2 Attributes out of these <1 Common Behave that is instert Mode
I This key having 2 Attributes out of these <1 Common Behave that is instert Mode
a This key having 2 Attributes out of these <1 Common Behave that is instert Mode
A This key having 2 Attributes out of these <1 Common Behave that is instert Mode
o This key having 2 Attributes out of these <1 Common Behave that is instert Mode
O This key having 2 Attributes out of these <1 Common Behave that is instert Mode
3. Extended Escape Mode < here we can apply commands
for example:
to come out from the vi editor

apply/use keys shift key and hold unit pressing : key
then
:q < to come out without saving the document.
:w < to save and continue in the document. without coming out from the document
:wq < to save and come out from vi editor
:q! < to come out forcefully
:w! < to save and continue in the document by forcefully.
:wq! < to save and come out forcefully
:!appy regular commands
for example:
hostname
cat /etc/os-release
any commands
once you/we apply the command/commands it will execute the output then it will ask you/us press any key to continue.
command to know the present using runlevel
runlevel
RUN Levels:

0 < init 0 <this command="" for="" machine<="" server="" shutdown="" th="" the="" to="" used=""></this>
1 < init 1 < this command used for to login into single user mode to mange the system.
2 < init 2 < this command used for to login into runlevel 2 for working with system with multi user and
without netowrk.
$3 < \!\!\! - \!\!\! - \!\!\! - \!\!\! - \!\!\! - \!\!\! - \!\!\! - \!\!\! - \!\!\! - \!\!\! - \!\!\!\! - \!\!\!\! - \!\!\!\! - \!\!\!\! - \!\!\!\! - \!\!\!\! - \!\!\!\! - \!\!\!\! - \!\!\!\!\! - \!\!\!\! - \!\!\!\!\! - \!\!\!\!\! - \!\!\!\!\! - \!\!\!\!\! - \!\!\!\!\! - \!\!\!\!\!\!$
$4 < \!$
5 < init 5 < this runlevel used for to with GUI
6 < init 6 < this runlevel used for to restart the server/machine/OS
unsued runlevels:
runlevel -1
runlevel -2
runlevel -4
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
whoami
who am i
who
w

rwx =readwriteexecute
r=4
w=2
x=1
+ Meand add/give the Permissions
- means denay the Permissions
u=user
g=group
o=others
syntax for giving the Permissions:
file/directory
chmod user/group/other+r/w/x
for example:
to give full Permissions to user:
chmod u+rwx file-nme
to give full Permissions to group

File Permissions:

chmod g+rwx file-nme
to give full Permissions to others:
chmod o+rwx file-nme
to give full Permissions to all (user group and others)
chmod ugo+rwx file-nme
to Denay the Permissions:
for example:
to denay the Permissions to user:
chmod u-rwx file-nme
to denay the Permissions to group
chmod g-rwx file-nme
to denay the Permissions to others:
chmod o-rwx file-nme

to denay the	Permissions to all (user group and others)
chmod ugo-r	wx file-nme
~~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Viewing user	information (whoami, id, who, w).
whoami:	
Syntax: whoa	ımi
Description: I	Displays the username of the current user.
Example:	
\$ whoami	
cloudgen	
id:	
Syntax: id [US	SERNAME]
Description: I	Prints real and effective user and group IDs.
Example:	
\$ id cloudgen	ı
uid=1001(clo	udgen) gid=1001(cloudgen) groups=1001(cloudgen),27(sudc

who:
Syntax: who
Description: Displays information about users who are currently logged in.
Example:
\$ who
cloudgen pts/0 2024-05-07 10:00 (192.168.1.100)
W:
Syntax: w [USER]
Description: Displays information about the users currently logged in and their processes.
Example:
\$ w cloudgen
10:00:12 up 10 days, 1:03, 1 user, load average: 0.02, 0.05, 0.07
USER TTY FROM LOGIN@ IDLE JCPU PCPU WHAT
cloudgen pts/0 192.168.1.100 10:00 1:23m 0.02s 0.02s -bash

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Working with USer:
~~~~
Creating a User: useradd
Explanation: This command is used to create a new user account on the system.
Syntax: sudo useradd [OPTIONS] USERNAME
Command: sudo useradd -m -s /bin/bash cloudgen
Example:
\$ sudo useradd -m -s /bin/bash cloudgen
Deleting a User: userdel
Explanation: This command is used to delete a user account from the system.
Syntax: sudo userdel [OPTIONS] USERNAME
Command: sudo userdel -r cloudgen
Example:

\$ sudo userdel -r cloudgen		
Creating a Group: groupadd		
Explanation: This command is used to create a new group on the system.		
Syntax: sudo groupadd [OPTIONS] GROUPNAME		
Command: sudo groupadd cloudgroup		
Example:		
\$ sudo groupadd cloudgroup		
Deleting a Group: groupdel		
Explanation: This command is used to delete a group from the system.		
Syntax: sudo groupdel [OPTIONS] GROUPNAME		
2,a 2222 8.22pac(222] 2201 10 11 12		

Command: sudo groupdel cloudgroup

Example:
\$ sudo groupdel cloudgroup
Changing User Password: passwd
Explanation: This command is used to change a users password.
Syntax: passwd [OPTIONS] USERNAME
Command: passwd cloudgen
Example:
\$ passwd cloudgen
Changing Passwords in Bulk: chpasswd
Explanation: This command reads a list of username and password pairs from standard

Syntax: echo "USERNAME:PASSWORD" | sudo chpasswd

input and updates passwords accordingly.

Command: echo "cloudgen:secretpassword"   sudo chpasswd
Example:
\$ echo "cloudgen:secretpassword"   sudo chpasswd
Modifying User Account Properties: usermod
Explanation: This command is used to modify user account properties.
Syntax: sudo usermod [OPTIONS] USERNAME
Command: sudo usermod -aG cloudgroup cloudgen
Example:
\$ sudo usermod -aG cloudgroup cloudgen
Options:
-aG: Append the user to the supplementary group(s) specified.

Modifying Group Properties: groupmod
Explanation: This command is used to modify group properties.
Syntax: sudo groupmod [OPTIONS] GROUPNAME
Command: sudo groupmod -n newcloudgroup cloudgroup
Example:
\$ sudo groupmod -n newcloudgroup cloudgroup
Options:
-n newcloudgroup: Rename the group to newcloudgroup.
Starting a New with Different Primary Group: newgrp
Explanation: This command is used to start a new with a different primary group.
Syntax: newgrp [OPTIONS] [GROUPNAME]
Command: newgrp cloudgroup
Example:

\$ newgrp cloudgroup
Locking and Unlocking User Accounts: usermod
Explanation: This command can be used to lock and unlock user accounts, preventing login access.
Syntax: sudo usermod -L USERNAME (lock), sudo usermod -U USERNAME (unlock)
Commands:
\$ sudo usermod -L cloudgen
\$ sudo usermod -U cloudgen
Examples:
Locking the user account:
\$ sudo usermod -L cloudgen
Unlocking the user account:

\$ sudo usermod -U cloudgen
Managing User Password Aging Policies: chage
Explanation: This command is used to view and modify user password aging policies such
as expiry dates and password change requirements.
Syntax: sudo chage [OPTIONS] USERNAME
Commands:
\$ sudo chage -l cloudgen
\$ sudo chage -E 2025-01-01 cloudgen
Examples:
Viewing password aging information for a user:
\$ sudo chage -l cloudgen
Setting an expiry date for the users password:

mathematica
\$ sudo chage -E 2025-01-01 cloudgen
Changing User Identification Information: usermod
Explanation: This command can be used to change user identification information such as username, user ID, and group ID.
Syntax: sudo usermod -l NEW_USERNAME OLD_USERNAME
Command:
\$ sudo usermod -l newcloudgen cloudgen
Example:
\$ sudo usermod -l newcloudgen cloudgen

Changing Group Identification Information: groupmod

Explanation: This command can be used to change group identification information such as group name and group ID.

Syntax: sudo groupmod -n NEW_GROUPNAME OLD_GROUPNAME
Command:
\$ sudo groupmod -n newcloudgroup cloudgroup
Example:
\$ sudo groupmod -n newcloudgroup cloudgroup
Setting Default User Group: usermod
Explanation: This command is used to set the default group for a user. Files created by the user will be owned by this group.
Syntax: sudo usermod -g GROUPNAME USERNAME
Command:
\$ sudo usermod -g cloudgroup cloudgen
Example:

\$ sudo usermod -g cloudgroup cloudgen
Assigning a Primary Group to a User: usermod
Explanation: This command is used to assign a primary group to a user. The primary group is the group that is associated with the user upon login.
Syntax: sudo usermod -g GROUPNAME USERNAME
Command:
\$ sudo usermod -g cloudgroup cloudgen
Example:
\$ sudo usermod -g cloudgroup cloudgen
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
working with passwd command
~~~~~~~~
Changing User Passwords: passwd

Explanation: This command is used to change a users password.

Syntax: passwd [OPTIONS] USERNAME
Command:
\$ passwd cloudgen
Example:
\$ passwd cloudgen
Explanation: When executed without any options, the passwd command prompts the
current user (in this case, "cloudgen") to enter their current password and then prompts for a new password. The new password is then set for the specified user.
a new password. The new password is then section the specified user.
Changing Another Users Password (as root):
Syntax: sudo passwd USERNAME
Command:
\$ sudo passwd cloudgen
Example:
\$ sudo passwd cloudgen

Explanation: When executed with sudo, the passwd command allows the root user to change the password for any user on the system. Replace "cloudgen" with the username of the user whose password needs to be changed.
Forcing a User to Change Their Password on Next Login:
Syntax: sudo passwdexpire USERNAME
Command:
\$ sudo passwdexpire cloudgen
Example:
\$ sudo passwdexpire cloudgen
Explanation: This command sets the password expiry for the specified user ("cloudgen" in this case), requiring them to change their password the next time they log in.
Setting a Specific Expiration Date for a Users Password:
Syntax: sudo passwdexpireat YYYY-MM-DD USERNAME

Command:
\$ sudo passwdexpireat 2025-12-31 cloudgen
Example:
\$ sudo passwdexpireat 2025-12-31 cloudgen
Explanation: This command sets the password expiry date for the specified user ("cloudgen" in this case) to the specified date (December 31, 2025 in this example).
Locking a Users Password (Disabling Login Access):
Syntax: sudo passwdlock USERNAME
Command:
\$ sudo passwdlock cloudgen
Example:
\$ sudo passwdlock cloudgen
Explanation: This command locks the password for the specified user ("cloudgen" in this case), effectively preventing them from logging in.
Unlocking a Users Password (Enabling Login Access):
Syntax: sudo passwdunlock USERNAME

Command:		
\$ sudo passwdunlock cloudgen		
Example:		
\$ sudo passwdunlock cloudgen		
Explanation: This command unlocks the password for the specified user ("cloudgen" in this case), allowing them to log in again.		
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		
working with file Permissions:		
*****************		
File permissions in Linux are a crucial aspect of system security and access control. They determine who can read, write, and execute files and directories on the system.  Understanding and managing file permissions is essential for maintaining the security and integrity of a Linux system.		
Here is an introduction to the basic concepts of file permissions in Linux:		
Types of Entities:		
User (owner): The user who owns the file.		
Group: The group associated with the file.		
Others: All other users who are not the owner and not in the group.		

	: Allows a user to read the contents of a file or view the contents of a directory.
-	v): Allows a user to modify the contents of a file or create, delete, or rename files a directory.
	e (x): Allows a user to execute a file as a program or access the contents of a ry and traverse it.
	entation:
-	ic Mode: Represented by characters (r, w, x) for user (u), group (g), and others (o) rively. For example, rwx represents read, write, and execute permissions.
permis x.	c Mode: Represented by a three-digit octal number. Each digit represents the sions for user, group, and others respectively. For example, 755 represents rwxr-xr
Viewin	g Permissions:
permis	e the ls command with the -l option to view detailed file information, including sions, ownership, and modification date.
Changi	ng Permissions:
ahmad	: Use the chmod command to change file permissions. You can modify permission g symbolic or numeric representation.

Set User ID (SUID): When set on an executable file, it allows the program to run with the permissions of the file owner rather than the user who executed it.
Set Group ID (SGID): Similar to SUID, but the program runs with the permissions of the files group.
Sticky Bit: When set on a directory, it restricts the deletion of files within the directory to only the file owner, the directory owner, or the root user.
Practical examples:
Changing File Permissions: chmod
Explanation: chmod is used to change the permissions of a file or directory.
Syntax: chmod [OPTIONS] PERMISSIONS FILE
Practical Examples:
Grant read, write, and execute permissions to the user, and read and execute permissions to the group and others:
\$ chmod u+rwx,g+rx,o+rx script.sh

Set permissions using numeric representation (e.g., 755):
\$ chmod 755 script.sh
Remove write permissions for others:
\$ chmod o-w script.sh
Viewing File Permissions: ls
Explanation: Is is used to list files and directories, and -l option displays detailed information including permissions.
Syntax: ls -l [FILE]
Practical Example:
\$ ls -l script.sh

Changing File Ownership: chown
Explanation: chown is used to change the owner and group of a file or directory.
Syntax: chown [OPTIONS] OWNER[:GROUP] FILE
Practical Examples:
Change the owner of a file to a specific user:
\$ sudo chown cloudgen script.sh
Change the owner and group of a file:
\$ sudo chown cloudgen:admin script.sh
Changing File Group: chgrp
Explanation: chgrp is used to change the group ownership of a file or directory.
Syntax: chgrp [OPTIONS] GROUP FILE
Example:

\$ sudo chgrp admin script.sh
<del></del>
Setting Special Permissions: chmod
Explanation: chmod is also used to set special permissions such as Set User ID (SUID), Set Group ID (SGID), and Sticky Bit.
Syntax:
SUID: chmod u+s FILE
SGID: chmod g+s FILE
Sticky Bit:
Example:
chmod +t DIRECTORY
Set SUID bit on a file:
Example:
\$ chmod u+s executable_file

Set SGID bit on a directory:
Example:
\$ chmod g+s directory
Set Sticky Bit on a directory:
Example:
\$ chmod +t directory
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Changing File Permissions: chmod
Explanation: chmod is used to change the permissions of a file or directory.
Syntax: chmod [OPTIONS] PERMISSIONS FILE
Grant read, write, and execute permissions to the user, and read and execute permissions
to the group and others:

Examples:
\$ chmod u+rwx,g+rx,o+rx script.sh
Set permissions using numeric representation (e.g., 755):
Examples:
\$ chmod 755 script.sh
Remove write permissions for others:
Every leave
Examples:
\$ chmod o-w script.sh
Understanding File Ownership (User, Group):
2

Explanation: Each file in Linux is associated with a user (owner) and a group. The owner is the user who created the file, and the group is the group to which the file belongs.

Example:
\$ ls -l script.sh
Changing File Ownership: chown
Explanation: chown is used to change the owner and group of a file or directory.
Syntax: chown [OPTIONS] OWNER[:GROUP] FILE
Change the owner of a file to a specific user:
Examples:
\$ sudo chown cloudgen script.sh
Change the owner and group of a file:
Examples:
\$ sudo chown cloudgen:admin script.sh
Changing File Group: chgrp

Explanation: chgrp is used to change the group ownership of a file or directory.

Syntax: chgrp [OPTIONS] GROUP FILE
Example:

\$ sudo chgrp admin script.sh