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command chmod

```
[root@localhost ~]# ll test.file.txt
-r--r--r-- 1 root root 0 Oct 10 03:37 test.file.txt
[root@localhost ~]# chmod u+x test.file.txt
[root@localhost ~]# ll test.file.txt
-r-xr--r-- 1 root root 0 Oct 10 03:37 test.file.txt
[root@localhost ~]# chmod 444 test.file.txt
[root@localhost ~]# ll test.file.txt
-r--r--r-- 1 root root 0 Oct 10 03:37 test.file.txt
[root@localhost ~]#
```

command chgrp

```
[root@localhost ~]# ls
bench.py  hello.c  test.file.txt
[root@localhost ~]# sudo groupadd section
[root@localhost ~]# sudo groupadd shellgroup
[root@localhost ~]# sudo chgrp shellgroup test.file.txt
[root@localhost ~]# ll test.file.txt
-rw-r--r-- 1 root shellgroup 0 Oct 10 03:42 test.file.txt
[root@localhost ~]#
```

command chown

```
[root@localhost ~]# sudo useradd garvit
[root@localhost ~]# ll test.file.txt
-rw-r--r-- 1 root shellgroup 0 Oct 10 03:42 test.file.txt
[root@localhost ~]# sudo chown root test.file.txt
[root@localhost ~]# ll test.file.txt
-rw-r--r-- 1 root shellgroup 0 Oct 10 03:42 test.file.txt
[root@localhost ~]# sudo chown root:garvit test.file.txt
[root@localhost ~]# ll test.file.txt
-rw-r--r-- 1 root garvit 0 Oct 10 03:42 test.file.txt
[root@localhost ~]#
```

command gzip and gunzip

```
[root@localhost ~]# ls
bench.py  hello.c  test.file.txt
[root@localhost ~]# gzip test.file.txt
[root@localhost ~]# ll test.file.txt
ls: cannot access 'test.file.txt': No such file or directory
[root@localhost ~]# ls
bench.py  hello.c  test.file.txt.gz
[root@localhost ~]# gunzip test.file.txt
[root@localhost ~]# ls
bench.py  hello.c  test.file.txt
[root@localhost ~]#
```

command tar cf , tar xf , tf

```
[root@localhost ~]# tar cf testarcheive test.file.txt
[root@localhost ~]# ls
bench.py  hello.c  testarcheive  testarchieve  test.file.txt
[root@localhost ~]# tar tf testarchieve
test.file.txt
[root@localhost ~]# tar xf archieve
tar: archieve: Cannot open: No such file or directory
tar: Error is not recoverable: exiting now
[root@localhost ~]# ls
bench.py  hello.c  testarcheive  testarchieve  test.file.txt
[root@localhost ~]#
```

tty-

```
[root@localhost ~]# tty
/dev/hvc0
```

who & whoami

```
[root@localhost ~]# who
[root@localhost ~]# whoami
root
[root@localhost ~]#
```

cal

```
[root@localhost ~]# cal
    October 2024
Su Mo Tu We Th Fr Sa
       1  2  3  4  5
 6  7  8  9 10 11 12
13 14 15 16 17 18 19
20 21 22 23 24 25 26
27 28 29 30 31
```

date -

```
[root@localhost ~]# date
Thu Oct 10 03:59:00 AM UTC 2024
[root@localhost ~]# date +%m
10
[root@localhost ~]#
```

echo -

```
[root@localhost ~]# echo ashish
ashish
[root@localhost ~]#
```

passwd-

```
[root@localhost ~]# passwd
Changing password for user root.
New password:
BAD PASSWORD: The password is a palindrome
Retype new password:
Sorry, passwords do not match.
New password:
Retype new password:
passwd: all authentication tokens updated successfully.
[root@localhost ~]# n
```

ls-

```
[root@localhost ~]# s
sh: s: command not found
[root@localhost ~]# ls
bench.py  hello.c
[root@localhost ~]#
```

ls -l

```
[root@localhost ~]# ls -l
total 8
-rw-r--r-- 1 root root 114 Dec 26  2020 bench.py
-rw-r--r-- 1 root root 185 Sep  9  2018 hello.c
[root@localhost ~]# ls  x
```

cat -

```
[root@localhost ~]# cat file.txt
this
is
a
file
that
contains
some content
```

exit -

```
[root@localhost ~]# exit
logout
```

path-

```
[root@localhost ~]# echo $PATH
/usr/local/sbin:/bin:/sbin:/usr/bin:/usr/sbin:/usr/local/bin
[root@localhost ~]#
```

pwd (present working directory)-

```
[root@localhost ~]# pwd
/root
```

mkdir (make directory) -

```
[root@localhost ~]# mkdir shelllabfolder
[root@localhost ~]# ls
bench.py  hello.c  shelllabfolder
```

rmdir (remove directory)-

```
[root@localhost ~]# ls
bench.py  hello.c  shelllabfolder
[root@localhost ~]# rmdir shelllabfolder
[root@localhost ~]# ls
bench.py  hello.c
```

Head command -

```
                                                    Terminal
ashish@ashish-HP-EliteBook-x360-1030-G2:~$ ls
'cpp- workspace'    Downloads      IdeaProjects    Pictures    Templates
 Desktop            folder         Music           Public      Videos
 Documents          headfile.txt   new             snap        WhiteSur-gtk-theme
ashish@ashish-HP-EliteBook-x360-1030-G2:~$ cat headfile.txt
line 1
line 10
line 2
line 9
line 3
line 8
line 4
line 7
line 5
line 6
line 11
line 13
line 12
line 14

ashish@ashish-HP-EliteBook-x360-1030-G2:~$ head headfile.txt
line 1
line 10
line 2
line 9
line 3
line 8
line 4
line 7
line 5
line 6
ashish@ashish-HP-EliteBook-x360-1030-G2:~$ []
```

Tail command
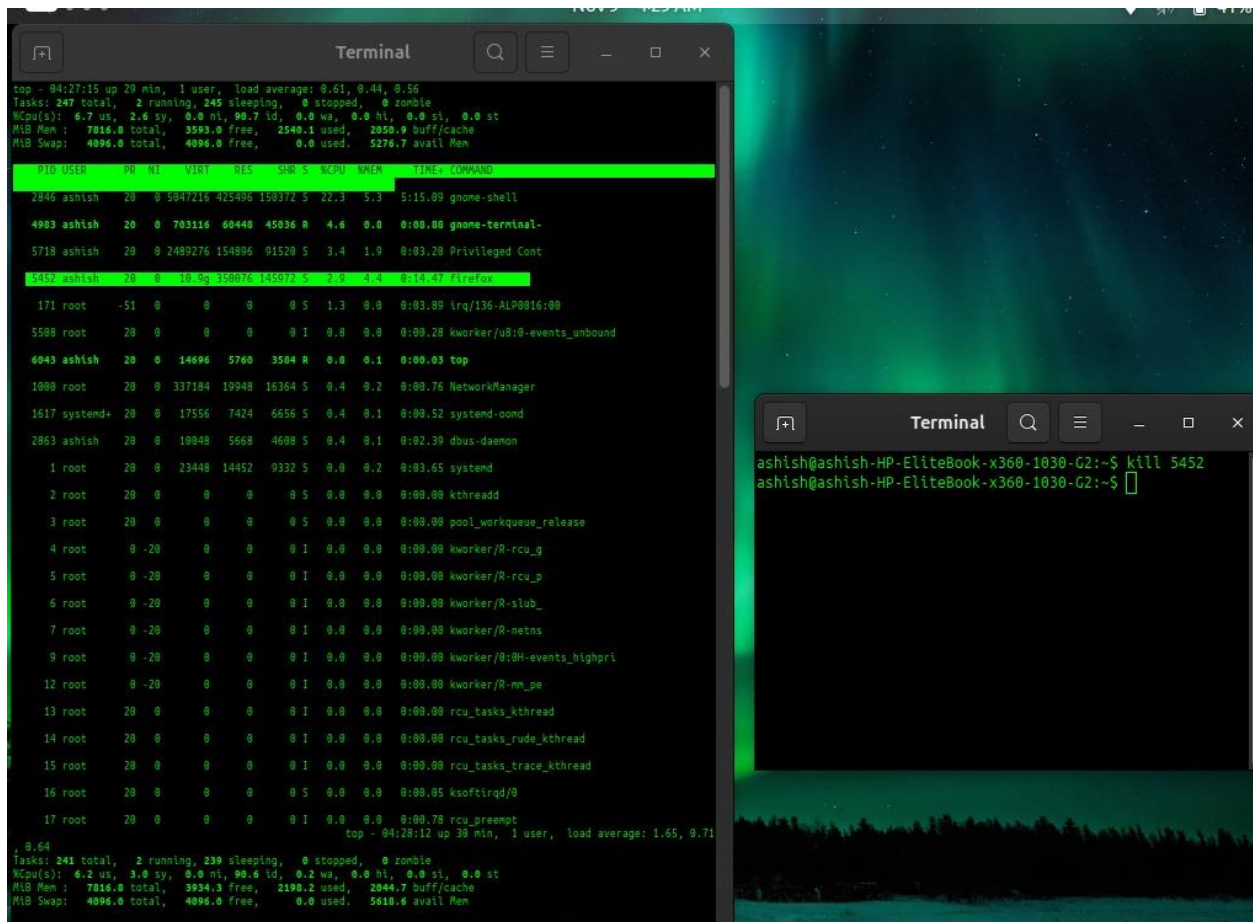
```
ashish@ashish-HP-EliteBook-x360-1030-G2:~$ tail headfile.txt
line 8
line 4
line 7
line 5
line 6
line 11
line 13
line 12
line 14
```

nohup command -


```
ashish@ashish-HP-EliteBook-x360-1030-G2:~$ cat > mycommand.sh
ls
ps
cal
ashish@ashish-HP-EliteBook-x360-1030-G2:~$ cat mycommand.sh
ls
ps
cal
ashish@ashish-HP-EliteBook-x360-1030-G2:~$ chmod a+X mycommand.sh
ashish@ashish-HP-EliteBook-x360-1030-G2:~$ ls -ltrh mycommand.sh
-rw-rw-r-- 1 ashish ashish 10 Nov  9 04:17 mycommand.sh
ashish@ashish-HP-EliteBook-x360-1030-G2:~$ nohup bash mycommand.sh
nohup: ignoring input and appending output to 'nohup.out'
ashish@ashish-HP-EliteBook-x360-1030-G2:~$ ls
'cpp- workspace'    Downloads       Music           nohup.out    snap          Videos
 Desktop            folder          mycommand.sh    Pictures     sortfile.txt  WhiteSur-gtk-the
 Documents          IdeaProjects    new             Public       Templates
ashish@ashish-HP-EliteBook-x360-1030-G2:~$ more nohup.out
cpp- workspace
Desktop
Documents
Downloads
folder
IdeaProjects
Music
mycommand.sh
new
nohup.out
Pictures
Public
snap
sortfile.txt
Templates
Videos
WhiteSur-gtk-theme
    PID TTY          TIME CMD
   4991 pts/0    00:00:00 bash
   5069 pts/0    00:00:00 bash
   5071 pts/0    00:00:00 ps
mycommand.sh: line 3: cal: command not found
ashish@ashish-HP-EliteBook-x360-1030-G2:~$
```

Kill command -