

1. Check the current working directory command, then get a list of all files & folders including hidden file as well as file-size of each file and folder.

```
harshita.singh@RSPL-437:~$ pwd
/home/ad.rapidops.com/harshita.singh
harshita.singh@RSPL-437:~$ ls -la
. .anydesk .bashrc .config Desktop Downloads .gnupg .mozilla my.txt .profile .ssh .thunderbird Videos .wget-hsts
.. .bash_logout .cache Desktop Downloads .local Music Pictures Public Templates tut .viminfo
harshita.singh@RSPL-437:~$ ls -l
total 40
drwxr-xr-x 2 harshita.singh domain users 4096 Jan 16 16:51 Desktop
drwxr-xr-x 2 harshita.singh domain users 4096 Jan 16 16:51 Documents
drwxr-xr-x 2 harshita.singh domain users 4096 Jan 16 16:51 Downloads
drwxr-xr-x 2 harshita.singh domain users 4096 Jan 16 16:51 Music
-rw-r--r-- 1 harshita.singh domain users 68 Jan 17 15:12 my.txt
drwxr-xr-x 2 harshita.singh domain users 4096 Jan 16 16:51 Pictures
drwxr-xr-x 2 harshita.singh domain users 4096 Jan 16 16:51 Public
drwxr-xr-x 2 harshita.singh domain users 4096 Jan 16 16:51 Templates
drwxr-xr-x 2 harshita.singh domain users 4096 Jan 17 13:51 tut
drwxr-xr-x 2 harshita.singh domain users 4096 Jan 16 16:51 Videos
harshita.singh@RSPL-437:~$ ls -lh
total 40K
drwxr-xr-x 2 harshita.singh domain users 4.0K Jan 16 16:51 Desktop
drwxr-xr-x 2 harshita.singh domain users 4.0K Jan 16 16:51 Documents
drwxr-xr-x 2 harshita.singh domain users 4.0K Jan 16 16:51 Downloads
drwxr-xr-x 2 harshita.singh domain users 4.0K Jan 16 16:51 Music
-rw-r--r-- 1 harshita.singh domain users 68 Jan 17 15:12 my.txt
drwxr-xr-x 2 harshita.singh domain users 4.0K Jan 16 16:51 Pictures
drwxr-xr-x 2 harshita.singh domain users 4.0K Jan 16 16:51 Public
drwxr-xr-x 2 harshita.singh domain users 4.0K Jan 16 16:51 Templates
drwxr-xr-x 2 harshita.singh domain users 4.0K Jan 17 13:51 tut
drwxr-xr-x 2 harshita.singh domain users 4.0K Jan 16 16:51 Videos
harshita.singh@RSPL-437:~$
```

2. Then create two folders named as '**intern-2021**' & '**rapidops-2021**',

```
harshita.singh@RSPL-437:~$ mkdir intern-2021
harshita.singh@RSPL-437:~$ mkdir rapidops-2021
```

3. Then create two files within '**intern-2021**' folder, names are '**dev.txt**' & '**helloworld.txt**'

```
harshita.singh@RSPL-437:~$ cd intern-2021
harshita.singh@RSPL-437:~/intern-2021$ touch dev.txt
harshita.singh@RSPL-437:~/intern-2021$ touch helloworld.txt
```

4. Then open the '**dev.txt**' file and write something in it, and in '**helloworld.txt**' file write '**helloworld**' using echo command

```
harshita.singh@RSPL-437:~/intern-2021$ nano dev.txt
harshita.singh@RSPL-437:~/intern-2021$ cat dev.txt
hii this is harshita singh
i am writing in dev.txt

harshita.singh@RSPL-437:~/intern-2021$ echo 'helloworld' > helloworld.txt
harshita.singh@RSPL-437:~/intern-2021$ cat helloworld.txt
helloworld
harshita.singh@RSPL-437:~/intern-2021$
```

5. Now copy '**dev.txt**' and '**helloworld.txt**' into **rapidops-2021** folder

```
harshita.singh@RSPL-437:~/rapidops-2021$ cd ..
harshita.singh@RSPL-437:~$ cp intern-2021/dev.txt intern-2021/helloworld.txt rapidops-2021/
```

6. Now go to the **rapidops-2021** folder and rename those two (dev.txt, helloworld.txt) files.

```
harshita.singh@RSPL-437:~$ cd rapidops-2021
harshita.singh@RSPL-437:~/rapidops-2021$ mv dev.txt rapidops.txt
harshita.singh@RSPL-437:~/rapidops-2021$ mv helloworld.txt hii.txt
harshita.singh@RSPL-437:~/rapidops-2021$ ls
hii.txt  rapidops.txt
```

7. In the same directory path, give 'read only' permission to **dev.txt** for file's owner, and for **helloworld.txt** give 'read-write-execute' permission to it's owner & 'read-write' permission to it's group.

```
harshita.singh@RSPL-437:~/rapidops-2021$ chmod 400 rapidops.txt
h Show Applications SPL-437:~/rapidops-2021$ chmod 760 hii.txt
harshita.singh@RSPL-437:~/rapidops-2021$
```

8. Now create archive file within same directory and shift into **intern-2021** directory.

```
harshita.singh@RSPL-437:~/rapidops-2021$ tar -cvf archive.tar rapidops.txt hii.txt
```

9. Now copy that archive file in this directory location and remove that older archive file.

```
h Thunderbird Mail RSPL-437:~/intern-2021$ cp ../rapidops-2021/archive.tar .
harshita.singh@RSPL-437:~/intern-2021$ rm ../rapidops-2021/archive.tar
harshita.singh@RSPL-437:~/intern-2021$
```

10. Using the command find out the **dev.txt** file.

```
harshita.singh@RSPL-437:~/intern-2021$ find dev.txt
dev.txt
```

11. Check the CPU, memory usage using CLI.

```
Activities Terminal Jan 17 19:02
harshita.singh@RSPL-437: ~/Intern-2021
harshita.singh@RSPL-437: ~/Intern-2021$ find dev.txt
dev.txt
harshita.singh@RSPL-437: ~/Intern-2021$ top
top - 19:01:04 up 6:52, 1 user, load average: 0.38, 0.51, 0.50
Tasks: 347 total, 1 running, 346 sleeping, 0 stopped, 0 zombie
%Cpu(s): 1.2 us, 1.1 sy, 0.0 ni, 97.7 id, 0.0 wa, 0.0 hi, 0.0 st, 0.0 sr
Mem: 15688.6 total, 6677.7 free, 5206.1 used, 3804.7 buff/cache
Mem Swap: 976.0 total, 976.0 free, 0.0 used, 9231.9 avail Mem
```

```
Activities Terminal Jan 17 19:02
harshita.singh@RSPL-437: ~/Intern-2021
harshita.singh@RSPL-437: ~/Intern-2021$ top
top - 19:01:04 up 6:52, 1 user, load average: 0.38, 0.51, 0.50
Tasks: 347 total, 1 running, 346 sleeping, 0 stopped, 0 zombie
%Cpu(s): 1.2 us, 1.1 sy, 0.0 ni, 97.7 id, 0.0 wa, 0.0 hi, 0.0 st, 0.0 sr
Mem: 15688.6 total, 6677.7 free, 5206.1 used, 3804.7 buff/cache
Mem Swap: 976.0 total, 976.0 free, 0.0 used, 9231.9 avail Mem

PID USER PR NI VIRT RES SHR S %CPU %MEM TIME+ COMMAND
737 root -51 0 0 0 0 S 6.6 0.0 15:50.06 irq/167-elan_t2
21987 harshit+ 20 0 2777096 398876 112384 S 2.3 2.5 3:06.01 Isolated Web Co
2011 harshit+ 20 0 687568 101572 61624 S 2.0 0.6 8:03.72 Xorg
2149 harshit+ 20 0 4719484 299288 109532 S 1.7 1.9 10:46.47 gnome-shell
2518 harshit+ 20 0 5196980 690912 225936 S 1.7 4.3 36:48.79 firefox
4770 harshit+ 20 0 818600 54776 39312 S 1.7 0.3 1:01.59 gnome-terminal-
1914 harshit+ 20 0 4923096 20932 16584 S 1.3 0.1 5:53.38 pulseaudio
22520 harshit+ 20 0 2972752 336888 115096 S 0.7 2.1 3:12.41 Isolated Web Co
14 root 20 0 0 0 0 I 0.3 0.0 0:09.99 rcu_sched
948 avahi 20 0 18920 4144 3684 S 0.3 0.0 0:09.17 avahi-daemon
1786 root 20 0 866608 53532 34740 S 0.3 0.3 0:12.23 app-client-daem
2198 harshit+ 20 0 162844 7716 6932 S 0.3 0.0 0:02.33 at-spi2-registr
2699 harshit+ 20 0 2697936 218436 116948 S 0.3 1.4 0:51.97 Isolated Web Co
31015 root 0 -20 0 0 0 I 0.3 0.0 0:00.26 kworker/u17:1-1915_flip
31329 root 20 0 0 0 0 I 0.3 0.0 0:00.40 kworker/4:0-mm_percpu_wq
31747 harshit+ 20 0 20628 4200 3404 R 0.3 0.0 0:00.29 top
1 root 20 0 171940 13608 8592 S 0.0 0.1 0:03.62 systemd
2 root 20 0 0 0 0 S 0.0 0.0 0:00.02 kthreadd
3 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 rcu_gp
4 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 rcu_par_gp
5 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 slab_flushwq
6 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 netns
8 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 kworker/0:0H-events_highpri
10 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 mm_percpu_wq
11 root 20 0 0 0 0 S 0.0 0.0 0:00.00 rcu_tasks_rude_
12 root 20 0 0 0 0 S 0.0 0.0 0:00.00 rcu_tasks_trace
13 root 20 0 0 0 0 S 0.0 0.0 0:00.33 ksoftirqd/0
15 root rt 0 0 0 0 S 0.0 0.0 0:00.11 migration/0
16 root -51 0 0 0 0 S 0.0 0.0 0:00.00 idle_inject/0
18 root 20 0 0 0 0 S 0.0 0.0 0:00.00 cpuhp/0
19 root 20 0 0 0 0 S 0.0 0.0 0:00.00 cpuhp/1
20 root -51 0 0 0 0 S 0.0 0.0 0:00.00 idle_inject/1
21 root rt 0 0 0 0 S 0.0 0.0 0:00.19 migration/1
22 root 20 0 0 0 0 S 0.0 0.0 0:00.30 ksoftirqd/1
24 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 kworker/1:0H-events_highpri
25 root 20 0 0 0 0 S 0.0 0.0 0:00.00 cpuhp/2
26 root -51 0 0 0 0 S 0.0 0.0 0:00.00 idle_inject/2
27 root rt 0 0 0 0 S 0.0 0.0 0:00.19 migration/2
28 root 20 0 0 0 0 S 0.0 0.0 0:00.11 ksoftirqd/2
30 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 kworker/2:0H-events_highpri
31 root 20 0 0 0 0 S 0.0 0.0 0:00.00 cpuhp/3
32 root -51 0 0 0 0 S 0.0 0.0 0:00.00 idle_inject/3
33 root rt 0 0 0 0 S 0.0 0.0 0:00.19 migration/3
34 root 20 0 0 0 0 S 0.0 0.0 0:00.08 ksoftirqd/3
36 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 kworker/3:0H-events_highpri
37 root 20 0 0 0 0 S 0.0 0.0 0:00.00 cpuhp/4
```

12. Check the disk usage and free disk space using CLI.

```

harshita.singh@RSPL-437:~$ df -h
Filesystem                Size      Used Avail Use% Mounted on
udev                      7.6G         0   7.6G   0% /dev
tmpfs                     1.6G       2.6M   1.6G   1% /run
/dev/mapper/vgubuntu-root 466G       11G   432G   3% /
tmpfs                     7.7G       132K   7.7G   1% /dev/shm
tmpfs                     5.0M       4.0K   5.0M   1% /run/lock
tmpfs                     7.7G         0   7.7G   0% /sys/fs/cgroup
/dev/loop0                128K      128K         0 100% /snap/bare/5
/dev/loop1                 62M       62M         0 100% /snap/core20/1611
/dev/loop4                 55M       55M         0 100% /snap/snap-store/558
/dev/loop2               350M      350M         0 100% /snap/gnome-3-38-2004/143
/dev/loop3               497M      497M         0 100% /snap/gnome-42-2204/141
/dev/loop7                 41M       41M         0 100% /snap/snapd/20671
/dev/loop5               347M      347M         0 100% /snap/gnome-3-38-2004/115
/dev/loop6                 92M       92M         0 100% /snap/gtk-common-themes/1535
/dev/loop8                 75M       75M         0 100% /snap/core22/1033
/dev/loop9                 13M       13M         0 100% /snap/snap-store/959
/dev/nvme0n1p2            1.4G      285M   1.1G  22% /boot
/dev/nvme0n1p1            511M       6.1M   505M   2% /boot/efi
tmpfs                     1.6G      116K   1.6G   1% /run/user/1124203185
/dev/loop10                64M       64M         0 100% /snap/core20/2105
/dev/loop11               6.5M      6.5M         0 100% /snap/curl/1754
harshita.singh@RSPL-437:~$

```

**13.** Check the all system process and filter out any of one process service using CLI.

```

harshita.singh@RSPL-437:~$ ps aux | grep "init"
root          1  0.0  0.0 171940 13608 ?        Ss   12:08   0:03 /sbin/init splash
harshit+    2443  0.0  0.8 1876104 135228 ?        Ssl  12:08   0:00 /usr/libexec/gnome-initial-setup --existing-user
harshit+   32246  0.0  0.0   9040    716 pts/0    S+   19:06   0:00 grep --color=auto init
harshita.singh@RSPL-437:~$

```

**14.** Retrieve the content from web server using CLI. [Here Link](#)

```

harshita.singh@RSPL-437:~$ wget https://releases.mattermost.com/desktop/4.3.2/mattermost-desktop-4.3.2-linux-i386.deb
--2024-01-17 19:07:45-- https://releases.mattermost.com/desktop/4.3.2/mattermost-desktop-4.3.2-linux-i386.deb
Resolving releases.mattermost.com (releases.mattermost.com)... 52.84.251.97, 52.84.251.80, 52.84.251.78, ...
Connecting to releases.mattermost.com (releases.mattermost.com)|52.84.251.97|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 74745386 (71M) [application/x-debian-package]
Saving to: 'mattermost-desktop-4.3.2-linux-i386.deb'

mattermost-desktop-4.3.2-linux-i386.deb 100%[=====] 71.28M 16.8MB/s in 4.7s

2024-01-17 19:07:51 (15.0 MB/s) - 'mattermost-desktop-4.3.2-linux-i386.deb' saved [74745386/74745386]

harshita.singh@RSPL-437:~$

```

**15.** Check your network interface information using CLI.

```
harshita.singh@RSPL-437:~$ ifconfig -a
```

```
Command 'ifconfig' not found, but can be installed with:
```

```
apt install net-tools
```

```
Please ask your administrator.
```

```
harshita.singh@RSPL-437:~$
```