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.

```
pwd – Check the current working directory
ls -sh – list of all files, folders including hidden file(human readable format)
du -h – file-size of each file and folder.
```

```
rahul.rajput@RSPL-501:~/Documents$ pwd
/home/ad.rapidops.com/rahul.rajput/Documents
rahul.rajput@RSPL-501:~/Documents$ ls -al
total 36
drwxr-xr-x 4 rahul.rajput domain users 4 Jan 17 16:28 drwx----- 18 rahul.rajput domain users 25 Jan 17 15:19
drwxr-xr-x 2 rahul.rajput domain users 2 Jan 17 16:14 file1.text
drwxr-xr-x 2 rahul.rajput domain users 2 Jan 17 16:14 file2.text
rahul.rajput@RSPL-501:~/Documents$ ls -sh
total 18K
9.0K file1.text 9.0K file2.text
rahul.rajput@RSPL-501:~/Documents$ du -h
        ./file1.text
9.0K
        ./file2.text
9.0K
27K
rahul.rajput@RSPL-501:~/Documents$
```

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

mkdir- for creating folders

```
rahul.rajput@RSPL-501:~/Documents$ mkdir intern-2021 rapidops-2021 rahul.rajput@RSPL-501:~/Documents$
```

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

cd- for change a directory touch- for creating files

```
rahul.rajput@RSPL-501:~/Documents$ cd intern-2021/
rahul.rajput@RSPL-501:~/Documents/intern-2021$ touch dev.txt helloworld.txt
rahul.rajput@RSPL-501:~/Documents/intern-2021$
```

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

cat- for writing text in file

echo

```
rahul.rajput@RSPL-501:~/Documents/intern-2021$ cat > dev.txt
Hello EveryOne
^C
rahul.rajput@RSPL-501:~/Documents/intern-2021$ echo "helloworld" | cat >> helloworld.txt
rahul.rajput@RSPL-501:~/Documents/intern-2021$ cat dev.txt helloworld.txt
Hello EveryOne
helloworld
rahul.rajput@RSPL-501:~/Documents/intern-2021$
```

5. Now copy 'dev.txt' and 'helloworld.txt' into **rapidops-2021** folder, cp- for copying files

```
rahul.rajput@RSPL-501:~/Documents$ cp ./intern-2021/dev.txt ./rapidops-2021
rahul.rajput@RSPL-501:~/Documents$ cp ./intern-2021/helloworld.txt ./rapidops-2021
rahul.rajput@RSPL-501:~/Documents$ cd rapidops-2021/
rahul.rajput@RSPL-501:~/Documents/rapidops-2021$ ls
dev.txt helloworld.txt
rahul.rajput@RSPL-501:~/Documents/rapidops-2021$
```

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

mv- we can rename using this command

```
rahul.rajput@RSPL-501:~/Documents$ cd rapidops-2021/
rahul.rajput@RSPL-501:~/Documents/rapidops-2021$ ls

dev.txt helloworld.txt
rahul.rajput@RSPL-501:~/Documents/rapidops-2021$ mv dev.txt newdev.txt
rahul.rajput@RSPL-501:~/Documents/rapidops-2021$ mv helloworld.txt newhelloworld.txt
rahul.rajput@RSPL-501:~/Documents/rapidops-2021$ ls
newdev.txt newhelloworld.txt
rahul.rajput@RSPL-501:~/Documents/rapidops-2021$
```

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.

```
rahul.rajput@RSPL-501:~/Documents/rapidops-2021$ chmod u=r-- newdev.txt
rahul.rajput@RSPL-501:~/Documents/rapidops-2021$ chmod u=rwx newhelloworld.txt
rahul.rajput@RSPL-501:~/Documents/rapidops-2021$ chmod u=rw- newhelloworld.txt
rahul.rajput@RSPL-501:~/Documents/rapidops-2021$ ls -l
total 10
-r--r--- 1 rahul.rajput domain users 15 Jan 17 17:24 newdev.txt
-rw-r---- 1 rahul.rajput domain users 11 Jan 17 17:25 newhelloworld.txt
rahul.rajput@RSPL-501:~/Documents/rapidops-2021$
```

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

tar- tape archive file command used for compressing files

```
rahul.rajput@RSPL-501:~/Documents/rapidops-2021$ tar cvf archive.tar newdev.txt newhelloworld.txt newhelloworld.txt newhelloworld.txt rahul.rajput@RSPL-501:~/Documents/rapidops-2021$ ls archive.tar newdev.txt newhelloworld.txt rahul.rajput@RSPL-501:~/Documents/rapidops-2021$ cd .. rahul.rajput@RSPL-501:~/Documents$ cd intern-2021$ rahul.rajput@RSPL-501:~/Documents$ intern-2021$
```

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

ср-

```
rahul.rajput@RSPL-501:~/bocuments/raptdops-2021$ Cd ..
rahul.rajput@RSPL-501:~/bocuments$ cd intern-2021/
rahul.rajput@RSPL-501:~/bocuments/intern-2021$ cp ../rapidops-2021/archive.tar ./
rahul.rajput@RSPL-501:~/bocuments/intern-2021$ ls
archive.tar dev.txt helloworld.txt
rahul.rajput@RSPL-501:~/bocuments/intern-2021$
```

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

find- for searching files in system

```
rahul.rajput@RSPL-501:~/Documents/intern-2021$ find ./ -name dev.txt
./dev.txt
rahul.rajput@RSPL-501:~/Documents/intern-2021$
```

11. Check the CPU, memory usage using CLI.

Top- for check CPU, memory usage

```
To the training the property of the property o
```

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

```
ilesystem
                                                                                                                                  Size
                                                                                                                                                Used Avail Use% Mounted on
                                                                                                                                                                                 1% /run
1% /run/keystore/rpool
2% /
1% /dev/shm
1% /run/lock
1% /home/rapidadmin
  tmpfs
/dev/mapper/keystore-rpool
                                                                                                                                                               3.2G
404M
                                                                                                                                  3.2G
                                                                                                                                                2.9M
                                                                                                                                  437M
                                                                                                                                                 28K
   pool/ROOT/ubuntu_uy3izd
                                                                                                                                 453G
                                                                                                                                16G
5.0M
  tmpfs
                                                                                                                                                130M
                                                                                                                                                                 16G
                                                                                                                                                                5.0M
                                                                                                                                                4.0K
  tmpfs
                                                                                                                                                                              1% /home/rapidadmin
1% /root
1% /srv
1% /usr/local
1% /var/log
1% /var/lib
1% /var/mail
1% /var/snap
1% /var/spool
1% /var/lib/AccountsService
1% /var/lib/AccountsService
1% /var/lib/Apt
1% /var/lib/Apt
1% /var/lib/dpkg
16% /boot
3% /boot/efi
   pool/USERDATA/rapidadmin_206hzk
                                                                                                                                 447G
                                                                                                                                                 411M
                                                                                                                                                                446G
rpool/USERDATA/root_206hzk
rpool/ROOT/ubuntu_uy3izd/srv
rpool/ROOT/ubuntu_uy3izd/srv
rpool/ROOT/ubuntu_uy3izd/var/local
rpool/ROOT/ubuntu_uy3izd/var/log
rpool/ROOT/ubuntu_uy3izd/var/lib
rpool/ROOT/ubuntu_uy3izd/var/mail
rpool/ROOT/ubuntu_uy3izd/var/snap
rpool/ROOT/ubuntu_uy3izd/var/spool
rpool/ROOT/ubuntu_uy3izd/var/www
rpool/ROOT/ubuntu_uy3izd/var/lib/AccountsService
rpool/ROOT/ubuntu_uy3izd/var/lib/AccountsService
rpool/ROOT/ubuntu_uy3izd/var/lib/AccountsService
rpool/ROOT/ubuntu_uy3izd/var/lib/Apt
rpool/ROOT/ubuntu_uy3izd/var/lib/apt
rpool/ROOT/ubuntu_uy3izd/var/lib/dpkg
bpool/BOOT/ubuntu_uy3izd/var/lib/dpkg
bpool/BOOT/ubuntu_uy3izd
/dev/nvme0n1p1
                                                                                                                                446G
446G
   pool/USERDATA/root_206hzk
                                                                                                                                                640K
                                                                                                                                                                446G
                                                                                                                                                256K
                                                                                                                                                                446G
                                                                                                                                 446G
                                                                                                                                                   74M
                                                                                                                                                                446G
                                                                                                                                 446G
                                                                                                                                                256K
                                                                                                                                                                446G
                                                                                                                                                18M
4.0G
                                                                                                                                 446G
                                                                                                                                                                446G
                                                                                                                                 450G
                                                                                                                                                                446G
                                                                                                                                 446G
                                                                                                                                                256K
                                                                                                                                                                 446G
                                                                                                                                 446G
                                                                                                                                                 2.7M
                                                                                                                                                                446G
                                                                                                                                 446G
                                                                                                                                                384K
                                                                                                                                                                446G
                                                                                                                                                                446G
                                                                                                                                  446G
                                                                                                                                                 256K
                                                                                                                                  446G
                                                                                                                                                 256K
                                                                                                                                                                446G
                                                                                                                                 446G
                                                                                                                                                 384K
                                                                                                                                                                446G
                                                                                                                                  446G
                                                                                                                                                115M
                                                                                                                                                                446G
                                                                                                                                  446G
                                                                                                                                                   64M
                                                                                                                                                                446G
                                                                                                                                  1.8G
                                                                                                                                                274M
                                                                                                                                                                 1.5G
                                                                                                                                                                                  3% /boot/efi
1% /run/user/1124203187
                                                                                                                                             14M
148K
   dev/nvme0n1p1
                                                                                                                                  511M
                                                                                                                                                                498M
                                                                                                                                 3.2G
   mpfs
```

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

```
RSPL-501:-/Documents/Intern-202
PID %CPU %MEM VSZ RSS TTY
1 0.0 0.0 168544 11460 ?
2 0.0 0.0 0 0 0 ?
4 0.0 0.0 0 0 0 ?
4 0.0 0.0 0 0 0 ?
5 0.0 0.0 0 0 ?
7 0.0 0.0 0 0 0 ?
10 0.0 0.0 0 0 ?
11 0.0 0.0 0 0 ?
12 0.0 0.0 0 0 ?
13 0.0 0.0 0 0 ?
14 0.1 0.0 0 0 0 ?
15 0.0 0.0 0 0 ?
16 0.0 0.0 0 0 ?
17 0.0 0.0 0 0 0 ?
18 0.0 0.0 0 0 ?
19 0.0 0.0 0 0 ?
20 0.0 0.0 0 0 ?
21 0.0 0.0 0 0 ?
22 0 0.0 0.0 0 0 ?
24 0.0 0.0 0 0 ?
25 0.0 0.0 0 0 ?
26 0.0 0.0 0 0 ?
27 0.0 0.0 0 0 ?
28 0.0 0.0 0 0 ?
29 0.0 0.0 0 0 ?
21 0.0 0.0 0 0 ?
21 0.0 0.0 0 0 ?
22 0.0 0.0 0 0 0 ?
23 0.0 0.0 0 0 ?
24 0.0 0.0 0 0 ?
25 0.0 0.0 0 0 ?
27 0.0 0.0 0 0 ?
28 0.0 0.0 0 0 ?
31 0.0 0.0 0 0 ?
31 0.0 0.0 0 0 ?
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TIME COMMAND
0:05 /sbin/init splash
0:05 /skthreadd]
0:00 [rcu_gp]
0:00 [rcu_gp]
0:00 [netns]
0:00 [metns]
0:00 [metns]
0:00 [metns]
0:00 [rcu_tasks_rude_]
0:00 [rcu_tasks_rude_]
0:00 [rcu_tasks_rude_]
0:00 [rcu_tasks_rude]
0:00 [rcu_tasks_rude]
0:00 [foother color colo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               10:13

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```

Ps aux | grep 550

```
root 205989 0.0 0.0 0
rahul.r+ 205995 0.0 0.0 22068
                                                                    0 ?
2968 pts/0 R+ 18:56 0:00
(Intern-2021$ ps aux | grep 5500
1664 pts/0 S+ 18:58 0:00
rahul.rajput@RSPL-501:~/Doc
rahul.r+ 206954 0.0 0.0
rahul.rajput@RSPL-501:~/Doc
                                                                                                                              0:00 grep --color=auto 550
```

14. Retrieve the content from web server using CLI. Here Link

```
rahul.rajput@RSPL-501:-/Documents/intern-202:$ wget https://releases.mattermost.com/desktop/4.3.2/mattermost-desktop-4.3.2-linux-i386.deb
--2024-01-17 18:55:21-- https://releases.mattermost.com/desktop/4.3.2/mattermost-desktop-4.3.2-linux-i386.deb
Resolving releases.mattermost.com (releases.mattermost.com)... 18.239.142.33, 18.239.142.53, 18.239.142.25, ...
Connecting to releases.mattermost.com (releases.mattermost.com)|18.239.142.33|: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'
  attermost-desktop-4.3.2-linux-i386.deb
 .
1924-01-17 18:55:27 (14.9 MB/s) - 'mattermost-desktop-4.3.2-linux-i386.deb' saved [74745386/74745386]
   hul.rajput@RSPL-501:~/Documents/intern-2021$
```

15. Check your network interface information using CLI.

ifconfig

```
flags=73<UP,LOOPBACK,RUNNING>
                                                ps=73<UP,LOOPBACK,RUNNING> mtu 65536
inet 127.0.0.1 netmask 255.0.0.0
inet6::1 prefixlen 128 scopeid 0x10<host>
loop txqueuelen 1000 (Local Loopback)
RX packets 59990 bytes 10961703 (10.9 MB)
RX errors 0 dropped 0 overruns 0 frame 0
TX packets 59990 bytes 10961703 (10.9 MB)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
                  wlp9s0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST>
                                               flags=4163-UP_BROADCAST_RUNNING_MULTICAST> mtu 1500
inet 192.168.3.225 netmask 255.255.254.0 broadcast 192.168.3.255
inet6 fe80::b2b3:82ab:92aa:26ec prefixlen 64 scopeid 0x20<link>
ether f0:57:a6:84:e9:eb txqueuelen 1000 (Ethernet)
RX packets 930014 bytes 809200672 (809.2 MB)
RX errors 0 dropped 0 overruns 0 frame 0
TX packets 435784 bytes 134194563 (134.1 MB)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
3
```