# Rapidops, Ahmedabad

#### Name - Rehan Shaikh

### **Topic – Linux Exercise-1**

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.

```
rehan.shaikh@RSPL-230:~$ pwd
/home/ad.rapidops.com/rehan.shaikh
rehan.shaikh@RSPL-230:~$ ls
rehan.shaikh@RSPL-230:~$ ls -a
            .bash_history .cache
            .bash_logout .conflg bown
.bash_logout .conflg bown
.bashcc Desktop .gnupg
                                                                     .profile Templates
.anydesk .bashrc
rehan.shaikh@RSPL-230:~$ ls -lh
total 32K
drwxr-xr-x 2 rehan.shaikh domain users 4.0K Dec 26 18:44 Desktop
drwxr-xr-x 4 rehan.shaikh domain users 4.0K Jan 3 11:58 Documents
drwxr-xr-x 2 rehan.shaikh domain users 4.0K Dec 26 18:44 Downloads
drwxr-xr-x 2 rehan.shaikh domain users 4.0K Dec 26 18:44 Music
drwxr-xr-x 2 rehan.shaikh domain users 4.0K Jan 3 13:52 Pictures
drwxr-xr-x 2 rehan.shaikh domain users 4.0K Dec 26 18:44 Public
drwxr-xr-x 2 rehan.shaikh domain users 4.0K Dec 26 18:44 Templates
drwxr-xr-x 2 rehan.shaikh domain users 4.0K Dec 26 18:44 Videos
rehan.shaikh@RSPL-230:~$ ls -a -lh
total 84K
drwx----- 17 rehan.shaikh domain users 4.0K Jan 3 11:44
drwxr-xr-x 3 root
                                 domain users 4.0K Dec 26 18:44
drwxr-xr-x 2 rehan.shaikh domain users 4.0K Dec 26 18:44 .anydesk
-rw------ 1 rehan.shaikh domain users 712 Jan 3 14:03 .bash_history
-rw----- 1 rehan.shaikh domain users 220 Dec 26 18:44 .bash_logout
drwxr-xr-x 14 rehan.shaikh domain users 4.0K Jan
                                                             3 13:52 .cache
drwxr-xr-x 13 rehan.shaikh domain users 4.0K Jan 3 13:49 .config
drwxr-xr-x 2 rehan.shaikh domain users 4.0K Dec 26 18:44 Desktop
drwxr-xr-x 4 rehan.shaikh domain users 4.0K Jan 3 11:58 Documents
drwxr-xr-x 2 rehan.shaikh domain users 4.0K Dec 26 18:44 Downloads
drwx----- 3 rehan.shaikh domain users 4.0K Jan 3 10:30 .gnupg
drwxr-xr-x 3 rehan.shaikh domain users 4.0K Dec 26 18:44 .local
drwxr-xr-x 2 rehan.shaikh domain users 4.0K Dec 26 18:44 Music drwxr-xr-x 2 rehan.shaikh domain users 4.0K Jan 3 13:52 Pictures drwx----- 3 rehan.shaikh domain users 4.0K Jan 2 13:28 .pki -rw----- 1 rehan.shaikh domain users 807 Dec 26 18:44 .profile
drwxr-xr-x 2 rehan.shaikh domain users 4.0K Dec 26 18:44 Public
drwx----- 2 rehan.shaikh domain users 4.0K Jan 2 13:26 .ssh
drwxr-xr-x 2 rehan.shaikh domain users 4.0K Dec 26 18:44 Templates
drwxr-xr-x 2 rehan.shaikh domain users 4.0K Dec 26 18:44 Videos
rehan.shaikh@RSPL-230:~$
```

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

```
rehan.shaikh@RSPL-230:~/Documents/linux$ mkdir intern-2021
rehan.shaikh@RSPL-230:~/Documents/linux$ mkdir rapidops-2021
rehan.shaikh@RSPL-230:~/Documents/linux$ ls
intern-2021 rapidops-2021
rehan.shaikh@RSPL-230:~/Documents/linux$
```

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

```
rehan.shaikh@RSPL-230:~/Documents/linux$ cd intern-2021
rehan.shaikh@RSPL-230:~/Documents/linux/intern-2021$ cat > dev.text

rehan.shaikh@RSPL-230:~/Documents/linux/intern-2021$ cat > helloworld.text
rehan.shaikh@RSPL-230:~/Documents/linux/intern-2021$ ls
dev.text helloworld.text
rehan.shaikh@RSPL-230:~/Documents/linux/intern-2021$
```

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

```
rehan.shaikh@RSPL-230:~/Documents/linux/intern-2021$ cat > dev.text
this is the dev file
rehan.shaikh@RSPL-230:~/Documents/linux/intern-2021$ echo 'helloworld' >> helloworld.text
rehan.shaikh@RSPL-230:~/Documents/linux/intern-2021$ cat dev.text
this is the dev file
```

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

```
rehan.shaikh@RSPL-230:~/Documents/linux/intern-2021$ cp dev.text ./../rapidops-2021
rehan.shaikh@RSPL-230:~/Documents/linux/intern-2021$ cp helloworld.text ./../rapidops-2021
rehan.shaikh@RSPL-230:~/Documents/linux/intern-2021$ cd ..
rehan.shaikh@RSPL-230:~/Documents/linux$ cd rapidops-2021
rehan.shaikh@RSPL-230:~/Documents/linux/rapidops-2021$ ls
dev.text helloworld.text
rehan.shaikh@RSPL-230:~/Documents/linux/rapidops-2021$
```

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

```
rehan.shaikh@RSPL-230:~/Documents/linux/rapidops-2021$ mv dev.text rapidops-dev.text rehan.shaikh@RSPL-230:-/Documents/linux/rapidops-2021$ mv helloworld.text rapidops-helloworld.text rehan.shaikh@RSPL-230:~/Documents/linux/rapidops-2021$ ls rapidops-dev.text rapidops-helloworld.text rehan.shaikh@RSPL-230:~/Documents/linux/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.

```
rehan.shaikh@RSPL-230:~/Documents/linux/rapidops-2021$ ls
rapidops-dev.text rapidops-helloworld.text
rehan.shaikh@RSPL-230:~/Documents/linux/rapidops-2021$ chmod u+x rapidops-helloworld.text
rehan.shaikh@RSPL-230:~/Documents/linux/rapidops-2021$ ls -l
total 8
-r--r--- 1 rehan.shaikh domain users 22 Jan 3 14:26 rapidops-dev.text
-rwxr--r-- 1 rehan.shaikh domain users 11 Jan 3 14:26 rapidops-helloworld.text
rehan.shaikh@RSPL-230:~/Documents/linux/rapidops-2021$
```

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

```
rehan.shaikh@RSPL-230:-/bocuments/linux/rapidops-2021$ ls
archive.tar rapidops-dev.text rapidops-helloworld.text
rehan.shaikh@RSPL-230:-/bocuments/linux/rapidops-2021$ tar -cvf archive.tar rapidops-dec.text rapidops-helloworld.text
tar: rapidops-dec.text: Cannot stat: No such file or directory
rapidops-helloworld.text
tar: Exiting with failure status due to previous errors
rehan.shaikh@RSPL-230:-/bocuments/linux/rapidops-2021$ tar -cvf archive.tar rapidops-dev.text
rapidops-dev.text
rapidops-helloworld.text
rehan.shaikh@RSPL-230:-/bocuments/linux/rapidops-2021$ ls
archive.tar rapidops-dev.text rapidops-helloworld.text
rehan.shaikh@RSPL-230:-/bocuments/linux/rapidops-2021$ my archive.tar ./../intern-2021
rehan.shaikh@RSPL-230:-/bocuments/linux/rapidops-2021$ cd ..
rehan.shaikh@RSPL-230:-/bocuments/linux/rapidops-2021$ ls
archive.tar dev.text helloworld.text
rehan.shaikh@RSPL-230:-/bocuments/linux/intern-2021$
ls
archive.tar dev.text helloworld.text
rehan.shaikh@RSPL-230:-/bocuments/linux/intern-2021$
```

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

```
rehan.shaikh@RSPL-230:~/Documents/linux/rapidops-2021$ cp ./../intern-2021/archive.tar ./
rehan.shaikh@RSPL-230:~/Documents/linux/rapidops-2021$ ls
archive.tar rapidops-dev.text rapidops-helloworld.text
rehan.shaikh@RSPL-230:~/Documents/linux/rapidops-2021$
```

```
rehan.shaikh@RSPL-230:~/Documents/linux/rapidops-2021$ cp ./../intern-2021/archive.tar ./
rehan.shaikh@RSPL-230:~/Documents/linux/rapidops-2021$ ls
archive.tar rapidops-dev.text rapidops-helloworld.text
rehan.shaikh@RSPL-230:~/Documents/linux/rapidops-2021$
```

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

```
rehan.shaikh@RSPL-230:~/Documents/linux/intern-2021$ find dev.text
dev.text
rehan.shaikh@RSPL-230:~/Documents/linux/intern-2021$
```

11. Check the CPU, memory usage using CLI.

```
The activation of the property of the places of the places
```

.

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

```
rehan.shaikh@RSPL-230:~/Documents/linux/intern-2021$ df -h
Filesystem
                               Size
                                     Used Avail Use% Mounted on
udev
                                12G
                                              12G
                                                     0% /dev
                                         0
tmpfs
                               2.4G
                                      2.5M
                                             2.4G
                                                     1% /run
/dev/mapper/vgubuntu-root
                               437G
                                      11G
                                             404G
                                                     3%
                                                    4% /dev/shm
                                             12G
                                12G
                                      415M
tmpfs
                               5.0M
                                      4.0K
                                             5.0M
                                                   1% /run/lock
                                12G
                                        0
                                              12G
                                                    0% /sys/fs/cgroup
tmpfs
/dev/loop0
/dev/loop1
/dev/loop2
                                62M
                                      62M
                                               0 100% /snap/core20/1611
                                               0 100% /snap/bare/5
0 100% /snap/gnome-3-38-2004/115
                               128K
                                      128K
                               347M
                                      347M
/dev/loop4
                                55M
                                      55M
                                               0 100% /snap/snap-store/558
/dev/loop5
                                92M
                                      92M
                                               0 100% /snap/gtk-common-themes/1535
/dev/sda2
/dev/sda1
                               1.4G
                                      278M
                                            1.1G 22% /boot
                                                   2% /boot/efi
1% /run/user/1124202878
                               511M
                                      5.3M
                                            506M
tmpfs
/dev/loop6
                               2.4G
                                      44K
                                            2.4G
                                50M
                                       50M
                                              0 100% /snap/snapd/17883
/dev/loop7
                                64M
                                       64M
                                                0 100% /snap/core20/1778
/dev/loop8
/dev/loop9
                               347M
                                      347M
                                                0 100% /snap/gnome-3-38-2004/119
/dev/loop9 46M 46M 0 100% /snap/snap-store/638 rehan.shaikh@RSPL-230:~/Documents/linux/intern-2021$
```

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

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

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

```
rehan.shalkh@RSPL-230:~/Documents/linux/intern-2021$ ip link show

1: lo: <LOOPBACK,UP,LOMER_UP> mtu 65536 qdisc noqueue state UNKNOWN mode DEFAULT group default qlen 1000
link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00

2: enp0s31f6: <NO-CARRIER,BROADCAST,MULTICAST,UP> mtu 1500 qdisc fq_codel state DOWN mode DEFAULT group default qlen 1000
link/ether 98:fa:90:83:10:e0 brd ff:ff:ff:ff:ff:

3: wlp5s0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc noqueue state UP mode DORMANT group default qlen 1000
link/ether 40:74:e0:a2:1f:61 brd ff:ff:ff:ff:ff:
rehan.shalkh@RSPL-230:~/Documents/linux/intern-2021$
```