

```
kali@kali: ~  
File Actions Edit View Help  
top - 08:23:46 up 35 min, 1 user, load average: 0.20, 0.18, 0.14  
Tasks: 148 total, 1 running, 147 sleeping, 0 stopped, 0 zombie  
%Cpu(s): 0.8 us, 0.8 sy, 0.0 ni, 98.1 id, 0.0 wa, 0.0 hi, 0.2 si, 0.0 st  
MiB Mem : 1972.4 total, 852.3 free, 846.4 used, 435.3 buff/cache  
MiB Swap: 1024.0 total, 1024.0 free, 0.0 used. 1126.0 avail Mem
```

| PID   | USER | PR | NI  | VIRT   | RES    | SHR   | S | %CPU | %MEM | TIME+   | COMMAND                     |
|-------|------|----|-----|--------|--------|-------|---|------|------|---------|-----------------------------|
| 583   | root | 20 | 0   | 551928 | 170392 | 69088 | S | 2.3  | 8.4  | 0:31.56 | Xorg                        |
| 16980 | kali | 20 | 0   | 441440 | 106680 | 85392 | S | 0.7  | 5.3  | 0:00.23 | qterminal                   |
| 884   | kali | 20 | 0   | 217440 | 2460   | 2116  | S | 0.3  | 0.1  | 0:01.15 | VBoxClient                  |
| 909   | kali | 20 | 0   | 217544 | 3524   | 3008  | S | 0.3  | 0.2  | 0:00.34 | VBoxClient                  |
| 17032 | kali | 20 | 0   | 11612  | 5428   | 3280  | R | 0.3  | 0.3  | 0:00.02 | top                         |
| 1     | root | 20 | 0   | 184148 | 12172  | 8964  | S | 0.0  | 0.6  | 0:00.91 | systemd                     |
| 2     | root | 20 | 0   | 0      | 0      | 0     | S | 0.0  | 0.0  | 0:00.01 | 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 | slub_flushwq                |
| 6     | root | 0  | -20 | 0      | 0      | 0     | I | 0.0  | 0.0  | 0:00.00 | netns                       |
| 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     | I | 0.0  | 0.0  | 0:00.00 | rcu_tasks_kthread           |
| 12    | root | 20 | 0   | 0      | 0      | 0     | I | 0.0  | 0.0  | 0:00.00 | rcu_tasks_rude_kthread      |
| 13    | root | 20 | 0   | 0      | 0      | 0     | I | 0.0  | 0.0  | 0:00.00 | rcu_tasks_trace_kthread     |
| 14    | root | 20 | 0   | 0      | 0      | 0     | S | 0.0  | 0.0  | 0:00.10 | ksoftirqd/0                 |
| 15    | root | 20 | 0   | 0      | 0      | 0     | I | 0.0  | 0.0  | 0:01.20 | rcu_preempt                 |
| 16    | root | rt | 0   | 0      | 0      | 0     | S | 0.0  | 0.0  | 0:00.04 | migration/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 | rt | 0   | 0      | 0      | 0     | S | 0.0  | 0.0  | 0:00.28 | migration/1                 |
| 21    | root | 20 | 0   | 0      | 0      | 0     | S | 0.0  | 0.0  | 0:00.18 | ksoftirqd/1                 |
| 23    | root | 0  | -20 | 0      | 0      | 0     | I | 0.0  | 0.0  | 0:00.00 | kworker/1:0H-events_highpri |
| 26    | root | 20 | 0   | 0      | 0      | 0     | S | 0.0  | 0.0  | 0:00.02 | kdevtmpfs                   |
| 27    | root | 0  | -20 | 0      | 0      | 0     | I | 0.0  | 0.0  | 0:00.00 | inet_frag_wq                |
| 28    | root | 20 | 0   | 0      | 0      | 0     | S | 0.0  | 0.0  | 0:00.00 | kauditd                     |
| 29    | root | 20 | 0   | 0      | 0      | 0     | S | 0.0  | 0.0  | 0:00.00 | khungtaskd                  |
| 30    | root | 20 | 0   | 0      | 0      | 0     | S | 0.0  | 0.0  | 0:00.00 | oom_reaper                  |
| 32    | root | 0  | -20 | 0      | 0      | 0     | I | 0.0  | 0.0  | 0:00.00 | writeback                   |
| 33    | root | 20 | 0   | 0      | 0      | 0     | S | 0.0  | 0.0  | 0:00.09 | kcompactd0                  |
| 34    | root | 25 | 5   | 0      | 0      | 0     | S | 0.0  | 0.0  | 0:00.00 | ksmd                        |
| 35    | root | 39 | 19  | 0      | 0      | 0     | S | 0.0  | 0.0  | 0:00.38 | khugepaged                  |
| 36    | root | 0  | -20 | 0      | 0      | 0     | I | 0.0  | 0.0  | 0:00.00 | kintegrityd                 |

## 1° punto

Comando top

- Pid: Numero identificativo.
- User: utente che avvia il processo.
- Command: comando di avvio.

```
kali@kali: ~  
File Actions Edit View Help  
top - 08:25:54 up 37 min, 1 user, load average: 0.11, 0.16, 0.13  
583 root 20 0 551928 170392 69088 S 0.6 8.4 0:34.17 Xorg  
15124 root 20 0 0 0 0 I 0.3 0.0 0:00.13 kworker+  
1 root 20 0 184148 12172 8964 S 0.0 0.6 0:00.91 systemd  
2 root 20 0 0 0 0 S 0.0 0.0 0:00.01 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+  
5 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 slub_fl+  
6 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 netns  
10 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 mm_perc+  
11 root 20 0 0 0 0 I 0.0 0.0 0:00.00 rcu_tas+  
12 root 20 0 0 0 0 I 0.0 0.0 0:00.00 rcu_tas+  
13 root 20 0 0 0 0 I 0.0 0.0 0:00.00 rcu_tas+  
14 root 20 0 0 0 0 S 0.0 0.0 0:00.11 ksoftir+  
15 root 20 0 0 0 0 I 0.0 0.0 0:01.28 rcu_pre+  
18 root 20 0 0 0 0 S 0.0 0.0 0:00.00 cpuhp/0  
16 root rt 0 0 0 0 S 0.0 0.0 0:00.04 migrati+  
19 root 20 0 0 0 0 S 0.0 0.0 0:00.00 cpuhp/1  
20 root rt 0 0 0 0 S 0.0 0.0 0:00.28 migrati+
```

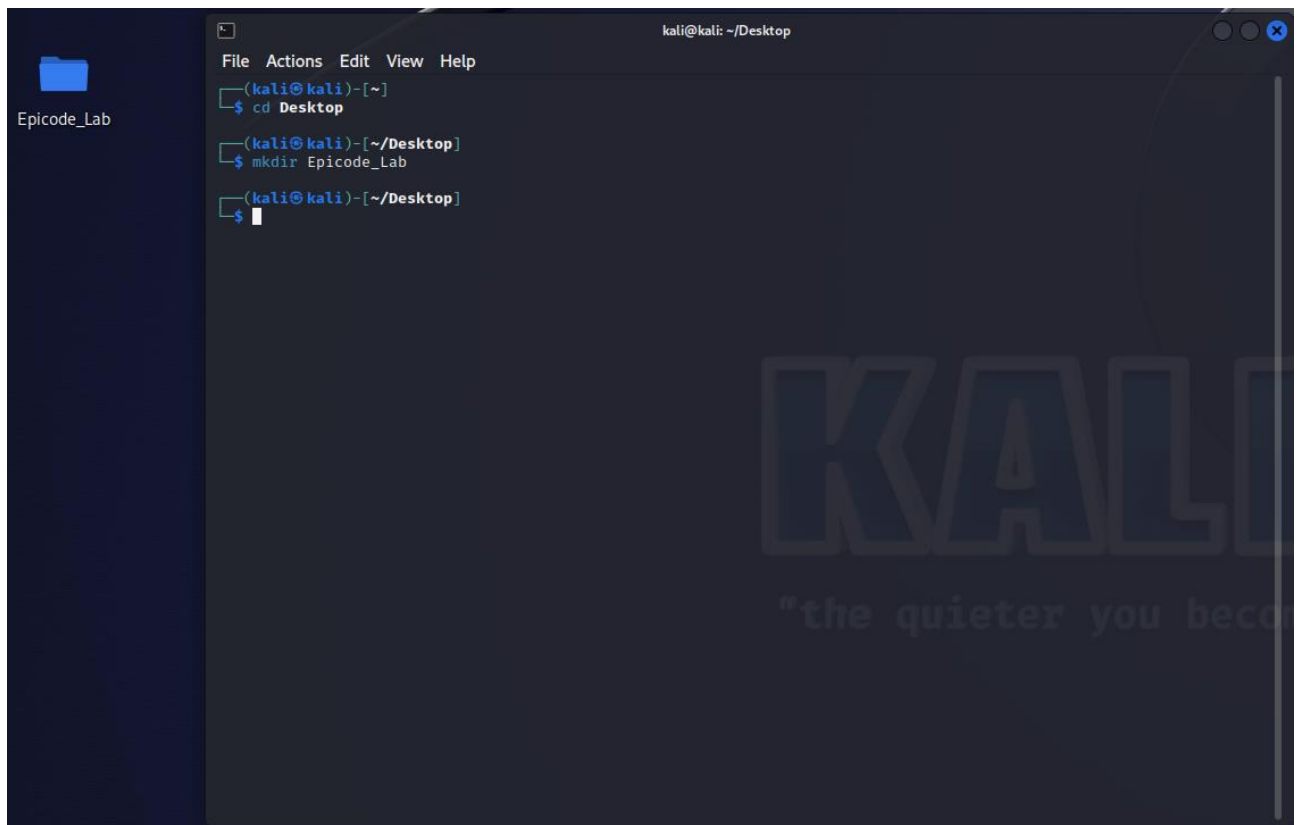
2°punto

- Programmi in esecuzione utente Root.

```
kali@kali: ~  
File Actions Edit View Help  
13 root 20 0 0 0 0 I 0.0 0.0 0:00.00 rcu_tas+  
  
(kali@kali)-[~]  
$ top | grep "kali"  
799 kali 20 0 9668 5328 4284 S 0.5 0.3 0:00.53 dbus-da+  
1000 kali 20 0 204024 31792 18472 S 0.5 1.6 0:03.96 panel-1+  
18733 kali 20 0 11580 4932 3028 R 0.5 0.2 0:00.01 top  
1002 kali 20 0 358540 28644 20788 S 0.7 1.4 0:04.22 panel-1+  
951 kali 20 0 940716 111792 77316 S 0.3 5.5 0:08.03 xfwm4  
17889 kali 20 0 441424 104424 85172 S 0.3 5.2 0:00.52 qtermin+  
1000 kali 20 0 204024 31792 18472 S 0.3 1.6 0:03.97 panel-1+  
891 kali 20 0 217956 2616 2272 S 0.3 0.1 0:03.75 VBoxCli+  
1000 kali 20 0 204024 31792 18472 S 0.3 1.6 0:03.98 panel-1+  
1002 kali 20 0 358540 28644 20788 S 0.3 1.4 0:04.23 panel-1+  
938 kali 20 0 164364 12116 7204 S 0.3 0.6 0:00.41 at-spi2+  
951 kali 20 0 940716 111792 77316 S 0.7 5.5 0:08.05 xfwm4  
891 kali 20 0 217956 2616 2272 S 0.3 0.1 0:03.76 VBoxCli+  
891 kali 20 0 217956 2616 2272 S 0.4 0.1 0:03.77 VBoxCli+  
1002 kali 20 0 358540 28644 20788 S 0.4 1.4 0:04.24 panel-1+  
18733 kali 20 0 11580 4932 3028 R 0.4 0.2 0:00.02 top  
891 kali 20 0 217956 2616 2272 S 0.3 0.1 0:03.78 VBoxCli+  
951 kali 20 0 940716 111792 77316 S 0.3 5.5 0:08.06 xfwm4  
1000 kali 20 0 204024 31792 18472 S 0.3 1.6 0:03.99 panel-1+  
17889 kali 20 0 441424 104424 85172 S 0.3 5.2 0:00.53 qtermin+  
884 kali 20 0 217440 2460 2116 S 0.3 0.1 0:01.28 VBoxCli+  
891 kali 20 0 217956 2616 2272 S 0.3 0.1 0:03.79 VBoxCli+  
891 kali 20 0 217956 2616 2272 S 0.3 0.1 0:03.80 VBoxCli+  
951 kali 20 0 940716 111792 77316 S 0.3 5.5 0:08.07 xfwm4  
1000 kali 20 0 204024 31792 18472 S 0.3 1.6 0:04.00 panel-1+  
1002 kali 20 0 358540 28644 20788 S 0.3 1.4 0:04.25 panel-1+  
802 kali 20 0 267868 30008 17992 S 0.3 1.5 0:00.53 xfce4-s+  
951 kali 20 0 940716 111792 77316 S 0.3 5.5 0:08.08 xfwm4  
1003 kali 20 0 666628 43532 34268 S 0.3 2.2 0:01.51 panel-1+  
17889 kali 20 0 441424 104424 85172 S 0.3 5.2 0:00.54 qtermin+  
17889 kali 20 0 441424 104424 85172 S 1.3 5.2 0:00.58 qtermin+  
951 kali 20 0 940716 111792 77316 S 0.3 5.5 0:08.09 xfwm4  
1000 kali 20 0 204024 31792 18472 S 0.3 1.6 0:04.01 panel-1+  
1002 kali 20 0 358540 28644 20788 S 0.3 1.4 0:04.26 panel-1+  
891 kali 20 0 217956 2616 2272 S 0.7 0.1 0:03.82 VBoxCli+  
17889 kali 20 0 441424 104424 85172 S 0.7 5.2 0:00.60 qtermin+
```

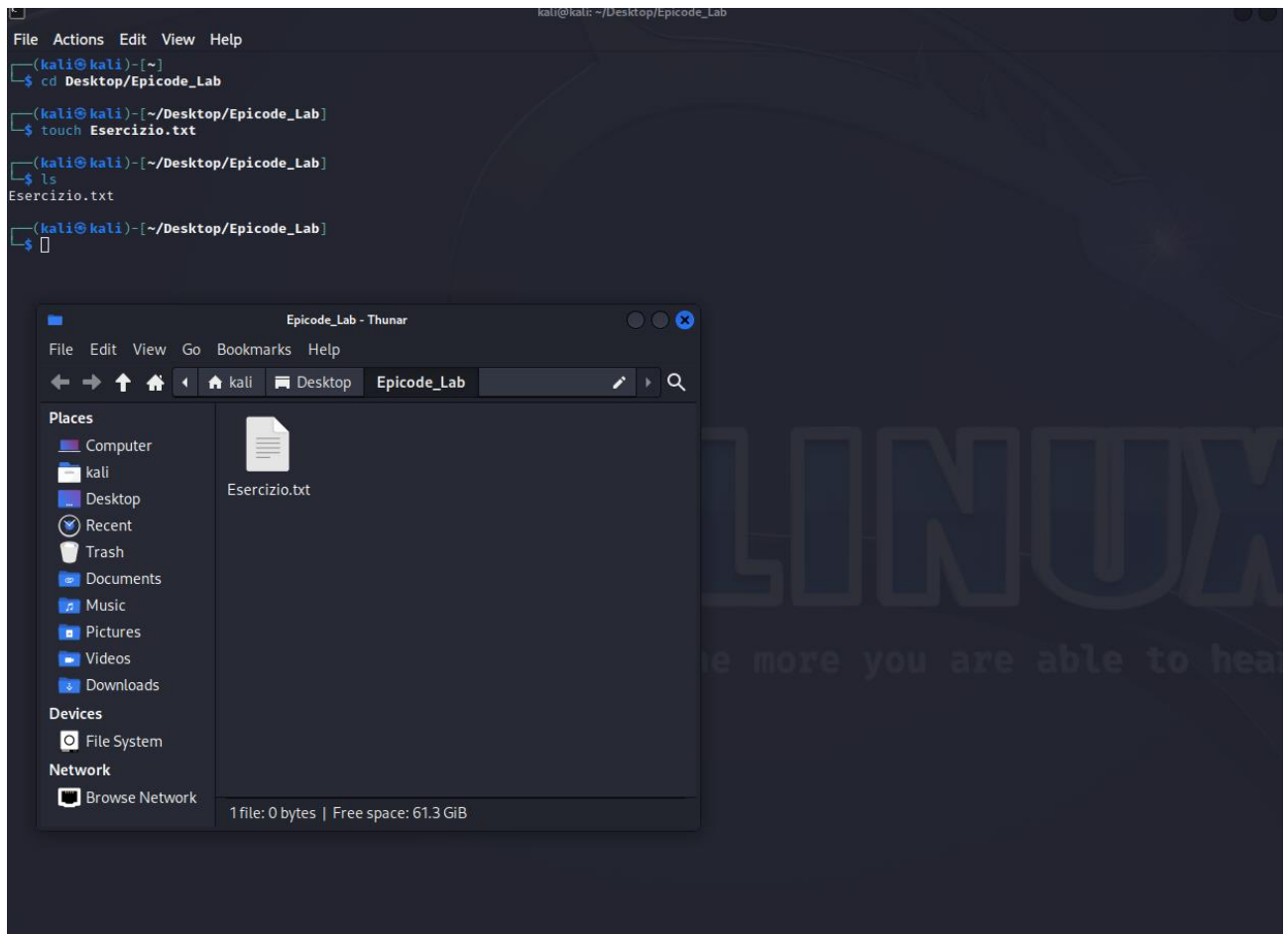
3° punto

- Programmi in esecuzione utente Kali.



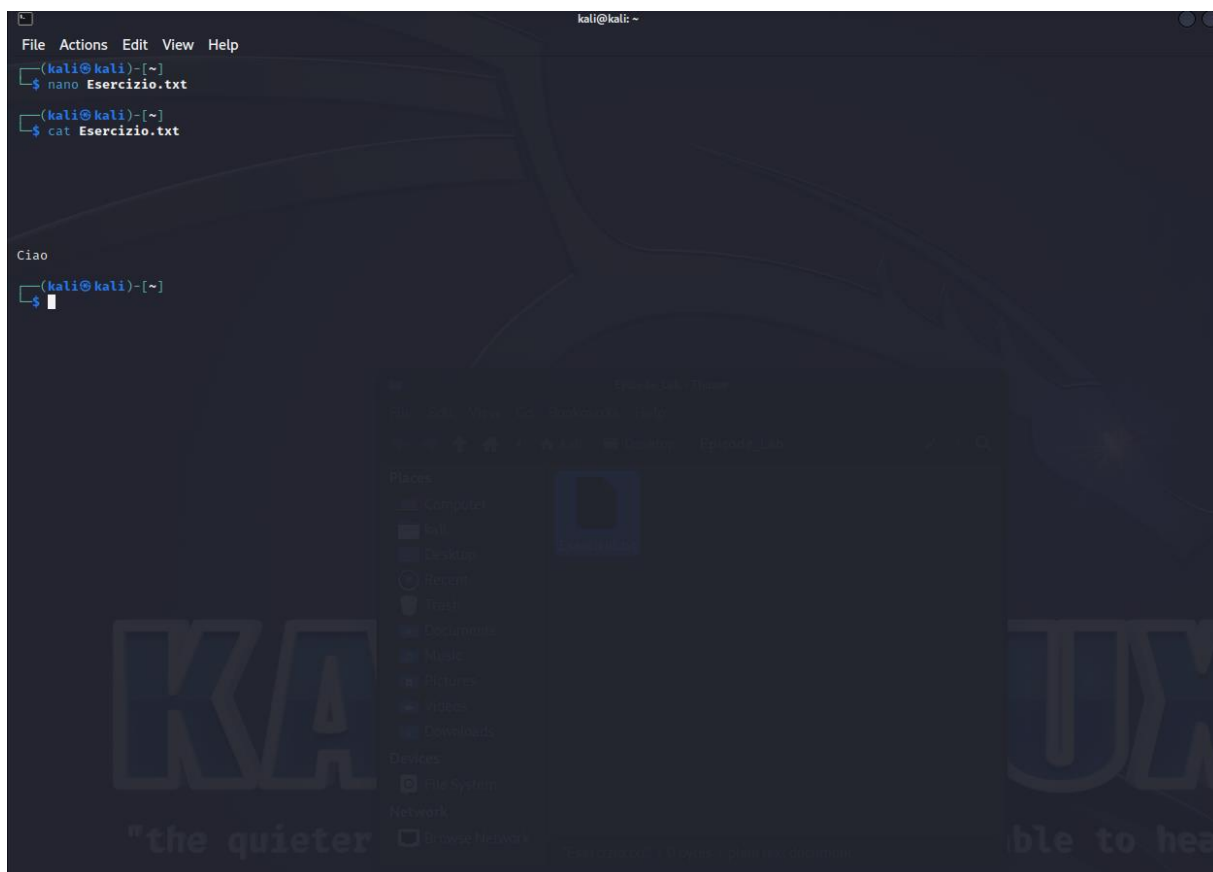
#### 4° punto

- Spostandosi nel desktop con il comando “cd” creo una nuova Directory rinominata “Epicode\_Lab”.



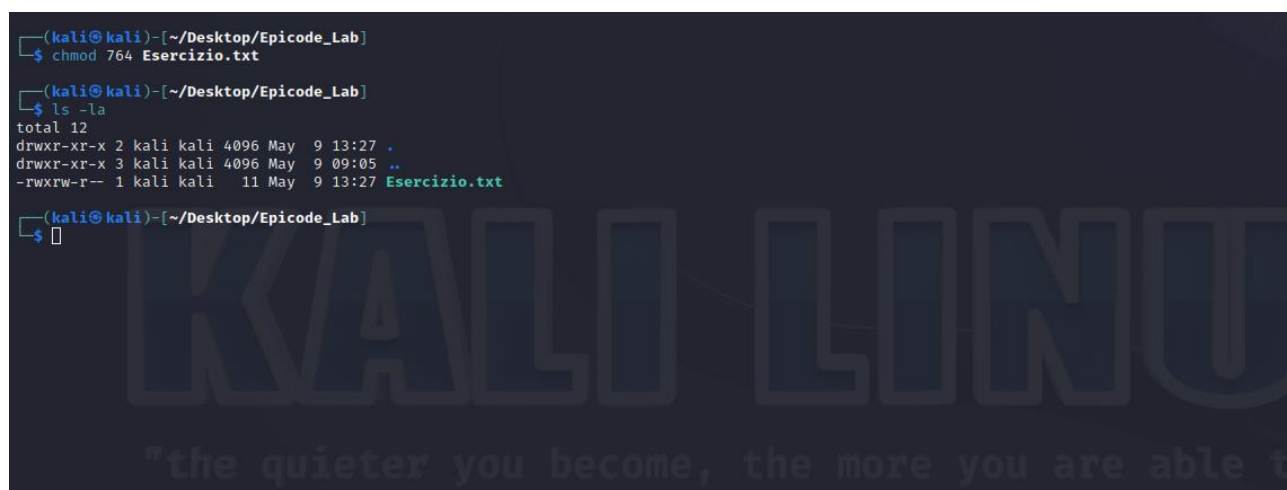
## 5° punto

- Spostandosi nella cartella Epicode\_Lab con il comando “cd” creo un nuovo file denominato. Esercizio.txt.
- Usando il comando “ls” si visualizzerà il contenuto della cartella Epicode\_Lab.



### 6°/1° punto

- Con il comando “nano Esercizio.txt” ho modificato il file scrivendo “Ciao”.
- Con il comando “cat” si può visualizzare il contenuto del file di testo.



### 2° punto/3° punto

- Tramite il comando “cd” si entra nella cartella Epicode\_Lab.
- Con il comando `chmod 764` ho cambiato i privilegi.
- 7 utente scrittura lettura e esecuzione.
- 6 gruppo lettura e scrittura.

- 4 permessi di lettura ad altri utenti.
- Tramite il comando ls-la si visualizza i permessi del file.

```
(kali@kali)-[~/Desktop/Epicode_Lab]
└─$ sudo useradd riccardo

(kali@kali)-[~/Desktop/Epicode_Lab]
└─$ sudo passwd riccardo
sudo: passwd: command not found

(kali@kali)-[~/Desktop/Epicode_Lab]
└─$ sudo passwd riccardo
New password:
Retype new password:
passwd: password updated successfully

(kali@kali)-[~/Desktop/Epicode_Lab]
└─$
```

#### 4° punto

- Con il comando “sudo useradd” ho creato un nuovo utente.
- Con il comando “sudo passwd” riccardo ho modificato la password.

```
kali@kali: ~/Desktop/Epicode_Lab
File Actions Edit View Help

(kali@kali)-[~]
└─$ cd Desktop/Epicode_Lab

(kali@kali)-[~/Desktop/Epicode_Lab]
└─$ chmod o=- Esercizio.txt

(kali@kali)-[~/Desktop/Epicode_Lab]
└─$ ls -la
total 12
drwxr-xr-x 2 kali kali 4096 May  9 13:27 .
drwxr-xr-x 3 kali kali 4096 May  9 09:05 ..
-rwxrw---- 1 kali kali  11 May  9 13:27 Esercizio.txt

(kali@kali)-[~/Desktop/Epicode_Lab]
└─$
```

#### 5° punto

- Con il comando “chmod o=- Esercizio.txt” rimuovo i privilegi ad altri utenti.
- Con il comando “ls-la” controllo i privilegi.

```

(kali㉿kali)-[~/Desktop/Epicode_Lab]
$ mv Esercizio.txt ~/

(kali㉿kali)-[~/Desktop/Epicode_Lab]
$ ls ~/

Desktop Documents Downloads Esercizio.txt Music Pictures Public Templates Videos

(kali㉿kali)-[~/Desktop/Epicode_Lab]
$

```

#### 6° punto

- Con il comando “mv Esercizio.txt ~/” sposto il file txt su root e controllo con “ls ~/”.

```

(kali㉿kali)-[~/Desktop/Epicode_Lab]
$ su riccardo
Password:
$ nano Esercizio.txt
Unable to create directory /home/riccardo/.local/share/nano/: No such file or directory
It is required for saving/loading search history or cursor positions.

```

#### 7° punto

- Con il comando “su riccardo” cambio utente e provo a visualizzare il file.



- Errore Permission denied.



```
(kali㉿kali)-[~]  
$ sudo userdel riccardo  
  
(kali㉿kali)-[~]  
$ w  
14:03:08 up 37 min, 1 user, load average: 0.05, 0.12, 0.15  
USER      TTY      FROM          LOGIN@   IDLE   JCPU   PCPU WHAT  
kali      tty7      :0            13:25    37:27  23.60s  0.40s xfce4-session
```

punto 8°

Con il comando “sudo userdel riccardo” ho cancellato l’utente.

Con il comando “w” ho verificato l’eliminazione dell’account.