

Processi attivi sulla macchina

```
kali@kali: ~  
File Actions Edit View Help  
top - 14:39:37 up 2 min, 1 user, load average: 0.17, 0.08, 0.03  
Tasks: 163 total, 1 running, 162 sleeping, 0 stopped, 0 zombie  
%Cpu(s): 0.3 us, 0.3 sy, 0.0 ni, 99.4 id, 0.0 wa, 0.0 hi, 0.0 si, 0.0  
MiB Mem : 3921.2 total, 2949.9 free, 650.7 used, 488.5 buff/cache  
MiB Swap: 976.0 total, 976.0 free, 0.0 used. 3270.4 avail Mem  


| PID  | USER | PR | NI  | VIRT   | RES   | SHR   | S | %CPU | %MEM | TIME+   |
|------|------|----|-----|--------|-------|-------|---|------|------|---------|
| 736  | root | 20 | 0   | 482736 | 93104 | 59008 | S | 0.7  | 2.3  | 0:02.16 |
| 1063 | kali | 20 | 0   | 435908 | 26972 | 19684 | S | 0.7  | 0.7  | 0:00.55 |
| 1    | root | 20 | 0   | 21440  | 11592 | 8520  | S | 0.0  | 0.3  | 0:00.37 |
| 2    | root | 20 | 0   | 0      | 0     | 0     | S | 0.0  | 0.0  | 0:00.01 |
| 3    | root | 0  | -20 | 0      | 0     | 0     | I | 0.0  | 0.0  | 0:00.00 |
| 4    | root | 0  | -20 | 0      | 0     | 0     | I | 0.0  | 0.0  | 0:00.00 |
| 5    | root | 0  | -20 | 0      | 0     | 0     | I | 0.0  | 0.0  | 0:00.00 |
| 6    | root | 0  | -20 | 0      | 0     | 0     | I | 0.0  | 0.0  | 0:00.00 |
| 7    | root | 20 | 0   | 0      | 0     | 0     | I | 0.0  | 0.0  | 0:00.00 |
| 8    | root | 0  | -20 | 0      | 0     | 0     | I | 0.0  | 0.0  | 0:00.00 |
| 9    | root | 20 | 0   | 0      | 0     | 0     | I | 0.0  | 0.0  | 0:00.35 |
| 10   | root | 0  | -20 | 0      | 0     | 0     | I | 0.0  | 0.0  | 0:00.00 |
| 11   | root | 20 | 0   | 0      | 0     | 0     | I | 0.0  | 0.0  | 0:00.00 |
| 12   | root | 20 | 0   | 0      | 0     | 0     | I | 0.0  | 0.0  | 0:00.00 |
| 13   | root | 20 | 0   | 0      | 0     | 0     | S | 0.0  | 0.0  | 0:00.01 |
| 14   | root | 20 | 0   | 0      | 0     | 0     | I | 0.0  | 0.0  | 0:00.04 |
| 15   | root | rt | 0   | 0      | 0     | 0     | S | 0.0  | 0.0  | 0:00.00 |
| 16   | root | 20 | 0   | 0      | 0     | 0     | I | 0.0  | 0.0  | 0:00.25 |
| 17   | root | 20 | 0   | 0      | 0     | 0     | S | 0.0  | 0.0  | 0:00.00 |
| 18   | root | 20 | 0   | 0      | 0     | 0     | S | 0.0  | 0.0  | 0:00.00 |


```

Filtraggio dei risultati

```
kali@kali: ~  
File Actions Edit View Help  
  
(kali@kali)-[~]  
$ top |grep kali  
1361 kali 20 0 508932 99424 82404 S 6.2 2.5 0:03.88 qtermin+  
1063 kali 20 0 435908 26972 19684 S 0.3 0.7 0:04.00 panel-1+  
1007 kali 20 0 711324 97184 74448 S 0.3 2.4 0:03.09 xfwm4  
1063 kali 20 0 435908 26972 19684 S 0.3 0.7 0:04.01 panel-1+  
1361 kali 20 0 508932 99424 82404 S 0.3 2.5 0:03.89 qtermin+  
10847 kali 20 0 12172 4864 2816 R 0.3 0.1 0:00.02 top  
  
(kali@kali)-[~]  
$ top |grep root  
1 root 20 0 21440 11592 8520 S 0.0 0.3 0:00.43 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  
8 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 kworker+  
9 root 20 0 0 0 0 I 0.0 0.0 0:00.62 kworker+  
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 S 0.0 0.0 0:00.06 ksoftir+  
14 root 20 0 0 0 0 I 0.0 0.0 0:00.35 rcu_sch+  
15 root rt 0 0 0 0 0 S 0.0 0.0 0:00.01 migrati+
```

Nuova directory epicode_lab

```
kali@kali: ~/Desktop/epicode_lab
File Actions Edit View Help
(kali@kali)-[~]
$ Desktop
(kali@kali)-[~/Desktop]
$ mkdir epicode_lab
(kali@kali)-[~/Desktop]
$ ls
epicode_lab
```

Creazione file Esercizio.txt

```
kali@kali: ~/Desktop/epicode_lab
File Actions Edit View Help
(kali@kali)-[~/Desktop/epicode_lab]
$ touch Esercizio.txt
(kali@kali)-[~/Desktop/epicode_lab]
$ ls
Esercizio.txt
(kali@kali)-[~/Desktop/epicode_lab]
$
```

Lettura file

```
kali@kali: ~/Desktop/epicode_lab
File Actions Edit View Help
(kali@kali)-[~/Desktop/epicode_lab]
$ cat Esercizio.txt
va bene
(kali@kali)-[~/Desktop/epicode_lab]
$
```

Controllo permessi con relativa modifica

```
(kali@kali)-[~/Desktop/epicode_lab]
$ ls -la
total 12
drwxr-xr-x 2 kali kali 4096 Nov 28 15:32 .
drwxr-xr-x 3 kali kali 4096 Nov 28 15:31 ..
-rwx----- 1 kali kali 9 Nov 28 15:32 Esercizio.txt
(kali@kali)-[~/Desktop/epicode_lab]
$ chmod u=rwx
chmod: missing operand after 'u=rwx'
Try 'chmod --help' for more information.
(kali@kali)-[~/Desktop/epicode_lab]
$ chmod u=rwx Esercizio.txt
(kali@kali)-[~/Desktop/epicode_lab]
$ ls -l
total 4
-rwx----- 1 kali kali 9 Nov 28 15:32 Esercizio.txt
(kali@kali)-[~/Desktop/epicode_lab]
$ chmod g=rw Esercizio.txt
(kali@kali)-[~/Desktop/epicode_lab]
$ chmod o+r Esercizio.txt
(kali@kali)-[~/Desktop/epicode_lab]
$ ls -l
total 4
-rwxrw-r-- 1 kali kali 9 Nov 28 15:32 Esercizio.txt
(kali@kali)-[~/Desktop/epicode_lab]
$
```

Creazione nuovo utente

```
(kali㉿kali)-[~/Desktop/epicode_lab]
$ sudo useradd corra

(kali㉿kali)-[~/Desktop/epicode_lab]
$ sudo passwd corra
New password:
Retype new password:
passwd: password updated successfully
```

Modifica privilegi

```
(kali㉿kali)-[~/Desktop/epicode_lab]
$ ls -l
total 4
-rwxr--r-- 1 kali kali 9 Nov 28 15:32 Esercizio.txt

(kali㉿kali)-[~/Desktop/epicode_lab]
$ chmod o-r Esercizio.txt

(kali㉿kali)-[~/Desktop/epicode_lab]
$ ls -l
total 4
-rwxr--r-- 1 kali kali 9 Nov 28 15:32 Esercizio.txt

(kali㉿kali)-[~/Desktop/epicode_lab]
$
```

esercizio.txt è spostato nella directory di root(/)

```
(kali㉿kali)-[~/Desktop/epicode_lab]
$ sudo mv Esercizio.txt /

(kali㉿kali)-[~/Desktop/epicode_lab]
$ /

(kali㉿kali)-[/]
$ ls
Esercizio.txt  boot  etc  lib  media  opt  root  sbin  sys  usr
bin            dev  home lost+found  mnt  proc  run  srv  tmp  var

(kali㉿kali)-[/]
$
```

Cambio utente e prova di accesso al file

```
(kali㉿kali)-[~]
$ su corra
Password:
$ ls
ls: cannot open directory '.': Permission denied
$ cd /
$ ls
Esercizio.txt  boot  etc  lib  media  opt  root  sbin  sys  usr
bin            dev  home lost+found  mnt  proc  run  srv  tmp  var
$ cat Esercizio.txt
cat: Esercizio.txt: Permission denied
$
```

Rimodifica dei permessi per permettere la lettura ad altri utenti

```
(kali@kali)-[/]
$ ls -l
total 72
-rwxrwxrwx 1 kali kali 9 Nov 28 15:32 Esercizio.txt
lrwxrwxrwx 1 root root 7 Nov 20 15:32 bin -> usr/bin
drwxr-xr-x 4 root root 4096 Nov 20 15:39 boot
drwxr-xr-x 18 root root 3380 Nov 28 16:36 dev
drwxr-xr-x 179 root root 12288 Nov 28 16:36 etc
drwxr-xr-x 3 root root 4096 Nov 20 15:39 home
lrwxrwxrwx 1 root root 7 Nov 20 15:32 lib -> usr/lib
drwxr-xr-x 2 root root 16384 Nov 20 15:32 lost+found
drwxr-xr-x 3 root root 4096 Nov 20 15:32 media
drwxr-xr-x 2 root root 4096 Nov 20 15:32 mnt
drwxr-xr-x 2 root root 4096 Nov 20 15:32 opt
dr-xr-xr-x 224 root root 0 Nov 28 16:36 proc
drwxr-xr-x 6 root root 4096 Nov 28 16:15 root
drwxr-xr-x 33 root root 840 Nov 28 16:37 run
lrwxrwxrwx 1 root root 8 Nov 20 15:32 sbin -> usr/sbin
drwxr-xr-x 3 root root 4096 Nov 20 15:36 srv
dr-xr-xr-x 13 root root 0 Nov 28 16:36 sys
drwxrwxrwt 14 root root 4096 Nov 28 16:37 tmp
drwxr-xr-x 13 root root 4096 Nov 20 15:33 usr
drwxr-xr-x 12 root root 4096 Nov 20 15:33 var

(kali@kali)-[/]
$ chmod o+r Esercizio.txt

(kali@kali)-[/]
$ ls -l
total 72
-rwxrw-r-- 1 kali kali 9 Nov 28 15:32 Esercizio.txt
lrwxrwxrwx 1 root root 7 Nov 20 15:32 bin -> usr/bin
drwxr-xr-x 4 root root 4096 Nov 20 15:39 boot
drwxr-xr-x 18 root root 3380 Nov 28 16:36 dev
```

Riusciamo a visualizzare il contenuto del file

```
(kali@kali)-[/]
$ su corra
Password:
$ ls
Esercizio.txt boot etc lib media opt root sbin sys usr
bin dev home lost+found mnt proc run srv tmp var
$ cat Esercizio.txt
va bene
```

Rimozione utente,directory e file creati durante il processo

```
(kali@kali)-[/]
$ sudo deluser corra
[sudo] password for kali:
info: Removing crontab ...
info: Removing user `corra' ...
```

```
(kali@kali)-[/]
$ rm Esercizio.txt
rm: cannot remove 'Esercizio.txt': Permission denied

(kali@kali)-[/]
$ sudo rm Esercizio.txt

(kali@kali)-[/]
$ ls
bin dev home lost+found mnt proc run srv tmp var
boot etc lib media opt root sbin sys usr
```

```
(kali@kali)-[~/Desktop]
$ rmdir epicode_lab

(kali@kali)-[~/Desktop]
$ ls

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