

Lanciando il comando `top` apriremo una "Gestione attività" di linux così da poter vedere ogni suo processo in esecuzione

File Actions Edit View Help

(kali@kali)-[~]  
\$ top

top - 12:42:13 up 21 min, 1 user, load average: 0.00, 0.01, 0.00  
Tasks: 187 total, 1 running, 186 sleeping, 0 stopped, 0 zombie  
%Cpu(s): 0.0 us, 0.0 sy, 0.0 ni, 100.0 id, 0.0 wa, 0.0 hi, 0.0 si, 0.0 st  
MiB Mem : 3912.1 total, 2773.4 free, 843.4 used, 519.7 buff/cache  
MiB Swap: 976.0 total, 976.0 free, 0.0 used. 3068.8 avail Mem

PID	USER	PR	NI	VIRT	RES	SHR	S	%CPU	%MEM	TIME+	COMMAND
1	root	20	0	21128	12648	9448	S	0.0	0.3	0:00.74	systemd
2	root	20	0	0	0	0	S	0.0	0.0	0:00.00	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
8	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	kworker/0:0H-events_highpri
9	root	20	0	0	0	0	I	0.0	0.0	0:00.09	kworker/0:1-events
10	root	20	0	0	0	0	I	0.0	0.0	0:01.82	kworker/u12:0-events_unbound
11	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	mm_percpu_wq
12	root	20	0	0	0	0	I	0.0	0.0	0:00.00	rcu_tasks_kthread
13	root	20	0	0	0	0	I	0.0	0.0	0:00.00	rcu_tasks_rude_kthread
14	root	20	0	0	0	0	I	0.0	0.0	0:00.00	rcu_tasks_trace_kthread
15	root	20	0	0	0	0	S	0.0	0.0	0:00.01	ksoftirqd/0
16	root	20	0	0	0	0	I	0.0	0.0	0:00.32	rcu_preempt
17	root	rt	0	0	0	0	S	0.0	0.0	0:00.01	migration/0
18	root	-51	0	0	0	0	S	0.0	0.0	0:00.00	idle_inject/0
19	root	20	0	0	0	0	S	0.0	0.0	0:00.00	cpuhp/0
20	root	20	0	0	0	0	S	0.0	0.0	0:00.00	cpuhp/1
21	root	-51	0	0	0	0	S	0.0	0.0	0:00.00	idle_inject/1
22	root	rt	0	0	0	0	S	0.0	0.0	0:00.53	migration/1
23	root	20	0	0	0	0	S	0.0	0.0	0:00.02	ksoftirqd/1
24	root	20	0	0	0	0	I	0.0	0.0	0:00.05	kworker/1:0-events
25	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	0:00.00	cpuhp/2
27	root	-51	0	0	0	0	S	0.0	0.0	0:00.00	idle_inject/2
28	root	rt	0	0	0	0	S	0.0	0.0	0:00.53	migration/2
29	root	20	0	0	0	0	S	0.0	0.0	0:00.00	ksoftirqd/2
32	root	20	0	0	0	0	S	0.0	0.0	0:00.00	cpuhp/3
33	root	-51	0	0	0	0	S	0.0	0.0	0:00.00	idle_inject/3
34	root	rt	0	0	0	0	S	0.0	0.0	0:00.54	migration/3
35	root	20	0	0	0	0	S	0.0	0.0	0:00.01	ksoftirqd/3
37	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	kworker/3:0H-events_highpri
38	root	20	0	0	0	0	S	0.0	0.0	0:00.00	cpuhp/4
39	root	-51	0	0	0	0	S	0.0	0.0	0:00.00	idle_inject/4
40	root	rt	0	0	0	0	S	0.0	0.0	0:00.53	migration/4
41	root	20	0	0	0	0	S	0.0	0.0	0:00.01	ksoftirqd/4
43	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	kworker/4:0H-events_highpri
44	root	20	0	0	0	0	S	0.0	0.0	0:00.00	cpuhp/5
45	root	-51	0	0	0	0	S	0.0	0.0	0:00.00	idle_inject/5
46	root	rt	0	0	0	0	S	0.0	0.0	0:00.54	migration/5
47	root	20	0	0	0	0	S	0.0	0.0	0:00.02	ksoftirqd/5
49	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	kworker/5:0H-events_highpri
52	root	20	0	0	0	0	I	0.0	0.0	0:00.03	kworker/u12:2-ext4-rsv-conversion
53	root	20	0	0	0	0	S	0.0	0.0	0:00.00	kdevtmpfs

PID: indica l'id del processo

USER: indica l'utente

COMMAND: indica la linea di comando che ha lanciato il processo

File Actions Edit View Help

(kali@kali)-[~]

\$ top | grep root

1	root	20	0	21128	12648	9448	S	0.0	0.3	0:00.74	systemd
2	root	20	0	0	0	0	S	0.0	0.0	0:00.00	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	0:00.10	kworker+
10	root	20	0	0	0	0	I	0.0	0.0	0:01.84	kworker+
11	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	mm_perc+
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	I	0.0	0.0	0:00.00	rcu_tas+
15	root	20	0	0	0	0	S	0.0	0.0	0:00.01	ksoftir+
16	root	20	0	0	0	0	I	0.0	0.0	0:00.38	rcu_pre+
17	root	rt	0	0	0	0	S	0.0	0.0	0:00.01	migrati+

Con il filtro GREP indichiamo cosa vogliamo filtrare dentro il "top"

(kali@kali)-[~]

\$ top | grep kali

1102	kali	20	0	1618908	105252	77988	S	0.3	2.6	0:02.91	xfwm4
1178	kali	20	0	319388	40188	19200	S	0.3	1.0	0:02.22	panel-1+
1180	kali	20	0	424468	27568	20564	S	0.3	0.7	0:02.20	panel-1+
7505	kali	20	0	460968	112404	90068	S	1.0	2.8	0:03.30	qtermin+
1048	kali	20	0	218328	2944	2688	S	0.3	0.1	0:02.74	VBoxCli+
1180	kali	20	0	424468	27568	20564	S	0.3	0.7	0:02.21	panel-1+
15102	kali	20	0	12180	5376	3200	R	0.3	0.1	0:00.01	top

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

Creo la DR

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

Creo il file

```
(kali@kali)-[~/Desktop/Epicode_Lab]  
$ touch Esercizio.txt
```

```
(kali@kali)-[~/Desktop/Epicode_Lab]  
$ ls  
Esercizio.txt
```

```
(kali@kali)-[~/Desktop/Epicode_Lab]  
$ sudo nano Esercizio.txt
```

Scrivo dentro al file

```
(kali@kali)-[~/Desktop/Epicode_Lab]  
$ ls  
Esercizio.txt
```

```
(kali@kali)-[~/Desktop/Epicode_Lab]  
$ cat Esercizio.txt  
ciao sono un file stupendo XD
```

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

Leggo il file con CAT

File Actions Edit View Help

kali@kali: ~/Desktop/Epicode\_Lab

GNU nano 7.2

Esercizio.txt \*

ciao sono un file stupendo XD



File System



Home



```
(kali@kali)-[~/Desktop/Epicode_Lab]
$ ls -la Esercizio.txt
-rw-r--r-- 1 kali kali 30 Nov 28 12:52 Esercizio.txt
```

Vedo i permessi del file

```
(kali@kali)-[~/Desktop/Epicode_Lab]
$ ls
Esercizio.txt
```

```
(kali@kali)-[~/Desktop/Epicode_Lab]
$ chmod u+x Esercizio.txt
```

```
(kali@kali)-[~/Desktop/Epicode_Lab]
$ chmod g+w Esercizio.txt
```

```
(kali@kali)-[~/Desktop/Epicode_Lab]
$ ls -la Esercizio.txt
-rwxrw-r-- 1 kali kali 30 Nov 28 12:52 Esercizio.txt
```

Aggiungo i vari permessi:  
Utente = execute  
Gruppo = Write



File Actions Edit View Help

```
(kali@kali)-[~]
$ sudo su
(root@kali)-[/home/kali]
# adduser rosario
info: Adding user `rosario' ...
info: Selecting UID/GID from range 1000 to 59999 ...
info: Adding new group `rosario' (1002) ...
info: Adding new user `rosario' (1002) with group `rosario (1002)' ...
info: Creating home directory `/home/rosario' ...
info: Copying files from `/etc/skel' ...
New password:
Retype new password:
passwd: password updated successfully
Changing the user information for rosario
Enter the new value, or press ENTER for the default
    Full Name []: a
    Room Number []: a
    Work Phone []: a
    Home Phone []: a
    Other []: a
Is the information correct? [Y/n]
info: Adding new user `rosario' to supplemental / extra groups `users' ...
info: Adding user `rosario' to group `users' ...

(root@kali)-[/home/kali]
#
```

Creo l'utente Rosario  
"Stalker"

```
(kali@kali)-[~/Desktop/Epicode_Lab]
$ ls -la Esercizio.txt
-rwxrw-r-- 1 kali kali 30 Nov 28 12:52 Esercizio.txt
```

```
(kali@kali)-[~/Desktop/Epicode_Lab]
$ chmod o-r Esercizio.txt
```

```
(kali@kali)-[~/Desktop/Epicode_Lab]
$ ls -la Esercizio.txt
-rwxrw----- 1 kali kali 30 Nov 28 12:52 Esercizio.txt
```

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

Password:

```
(rosario@kali)-[/home/kali/Desktop/Epicode_Lab]
$ cat Esercizio.txt
cat: Esercizio.txt: Permission denied
```

```
(rosario@kali)-[/home/kali/Desktop/Epicode_Lab]
$
```

Levo i permessi agli altri  
utenti = - read

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

Cambio la Directory al  
file sulla ROOT "/"

```
(rosario@kali)-[/]  
$ ls  
Esercizio.txt  bin  boot  dev  etc  home  initrd.img  init
```

```
(rosario@kali)-[/]  
$ ls -la Esercizio.txt  
-rwxrw-r-- 1 kali kali 30 Nov 28 12:52 Esercizio.txt
```

```
(rosario@kali)-[/]  
$ sudo nano Esercizio.txt  
[sudo] password for rosario:  
rosario is not in the sudoers file.
```

```
(rosario@kali)-[/]  
$
```

Cerco di leggere il file  
con NANO, ma non ho  
i permessi



```
File Actions Edit View Help

(kali㉿kali)-[/]
$ ls
Esercizio.txt bin boot dev etc home initrd.img initrd.img

(kali㉿kali)-[/]
$ ls -la Esercizio.txt
-rwxrw-r-- 1 kali kali 30 Nov 28 12:52 Esercizio.txt

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

(kali㉿kali)-[/]
$ ls -la Esercizio.txt
-rwxrw-r-- 1 kali kali 30 Nov 28 12:52 Esercizio.txt

(kali㉿kali)-[/]
$
```

Do i permessi READ

```
rosario@kali: /

File Actions Edit View Help
GNU nano 7.2 /Esercizio.txt
ciao sono un file stupendo XD
```

Leggo il file



Cancello il file

```
(root@kali)-[/]  
# rm /Esercizio.txt
```

```
(root@kali)-[/]  
# ls  
bin  boot  dev  etc  home  initrd.img  initrd.img.old  lib  lib32  lib64  lost+found  media  mnt  opt  proc  root  run  sbin  srv  sys  tmp  usr  var  v
```

```
(root@kali)-[/]  
#
```