<u>U1W2L2</u>





File Actions Edit View Help

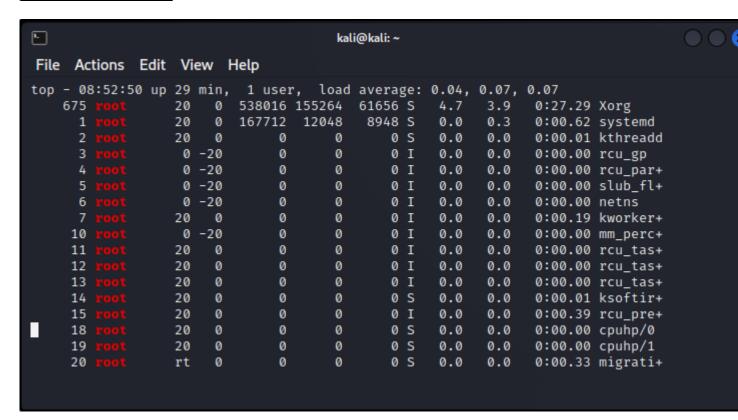
top - 08:28:58 up 5 min, 1 user, load average: 0.24, 0.15, 0.06
Tasks: 169 total, 1 running, 168 sleeping, 0 stopped, 0 zombie
%Cpu(s): 0.3 us, 0.3 sy, 0.0 ni, 99.5 id, 0.0 wa, 0.0 hi, 0.0 si, 0.0 st
MiB Mem : 3920.2 total, 2877.8 free, 856.7 used, 411.9 buff/cache
MiB Swap: 1024.0 total, 1024.0 free, 0.0 used. 3063.5 avail Mem

	Here		847	1477	5.55	6415	0/07:	0/11	TTHE . COMMAND
	USER	PR		VIRT	RES 159204	SHR S	%CPU	%MEM	TIME+ COMMAND
	root	20	0		158204	64628 S	2.0	3.9	0:11.45 Xorg
1035		20	0	554444	77004	44472 S	0.7	1.9	0:03.57 xfdesktop
	root	20	0	217056	2404	0 I		0.0	0:00.07 rcu_preempt
	kali kali	20	0	217956	2404	2060 S	0.3	0.1	0:00.29 VBoxClient
	kali kali	20	0	217544	3524	3008 S 77192 S	0.3	0.1	0:00.19 VBoxClient 0:00.99 xfwm4
		20		1235692			0.3	2.6	
1041	root	20 20	0	210152 167712	27732 12048	18588 S 8948 S	0.3 0.0	0.7 0.3	0:00.28 panel-13-cpugra 0:00.61 systemd
	root	20	0	16//12	12048	8948 S 0 S	0.0	0.3	0:00.61 systemd 0:00.01 kthreadd
	root		-20	0	0	0 S	0.0	0.0	0:00.01 kthreadd 0:00.00 rcu_gp
	root			0	0	0 I	0.0	0.0	บ:บบ.บบ rcu_gp 0:00.00 rcu_par_gp
	root			0	0	0 I	0.0	0.0	0:00.00 rcu_par_gp 0:00.00 slub_flushwq
	root			0	0	0 I	0.0	0.0	0:00.00 Stub_ftushwq 0:00.00 neths
	root	20	-20 0	0	0	0 I	0.0	0.0	0:00.00 heths 0:00.03 kworker/0:0-eve+
	root	20	0	0	0	0 I	0.0	0.0	0:00.95 kworker/u8:0-fl+
	root	0		0	0	0 I	0.0	0.0	0:00.00 mm_percpu_wq
	root	20	-20 0	0	0	0 I	0.0	0.0	0:00.00 rcu_tasks_kthre+
	root	20	ø	0	0	0 I	0.0	0.0	0:00.00 rcu_tasks_rude_+
	root	20	ø	0	0	0 I	0.0	0.0	0:00.00 rcu_tasks_trace+
	root	20	ø	0	Ø	0 S	0.0	0.0	0:00.00 ksoftirqd/0
	root	rt	ø	ő	ø	0 S	0.0	0.0	0:00.00 migration/0
	root	20	ø	ő	ő	0 I	0.0	0.0	0:00.00 kworker/0:1-eve+
	root	20	ø	ő	ő	0 S	0.0	0.0	0:00.00 cpuhp/0
	root	20	ø	ő	0	0 S	0.0	0.0	0:00.00 cpuhp/1
20	root	rt	Ø	ø	0	0 S	0.0	0.0	0:00.31 migration/1
	root	20	0	0	0	0 S	0.0	0.0	0:00.00 ksoftirqd/1
22	root	20	0	0	0	0 I	0.0	0.0	0:00.00 kworker/1:0-eve+
23	root	0	-20	0	0	0 I	0.0	0.0	0:00.00 kworker/1:0H-ev+
24	root	20	0	0	0	0 S	0.0	0.0	0:00.00 cpuhp/2
25	root	rt	0	0	0	0 S	0.0	0.0	0:00.32 migration/2
	root	20	0	0	0	0 S	0.0	0.0	0:00.01 ksoftirqd/2
	root			0	0	0 I	0.0	0.0	0:00.00 kworker/2:0H-ev+
	root	20	0	0	0	0 S	0.0	0.0	0:00.00 cpuhp/3
	root	rt	0	0	0	0 S	0.0	0.0	0:00.32 migration/3
	root	20	0	0	0	0 S	0.0	0.0	0:00.00 ksoftirqd/3
	root	20		0	0	0 I	0.0	0.0	0:00.05 kworker/3:0-mm_+
	root		-20	0	0	0 I		0.0	0:00.00 kworker/3:0H-ev+
	root	20	0	0	0	0 I		0.0	0:00.01 kworker/u8:2-ev+
	root	20	0 -20	0	0	0 S	0.0	0.0	0:00.00 kdevtmpfs
	root		-20 0	0	0	0 I	0.0	0.0	0:00.00 inet_frag_wq
	root	20 20	0	0	0 0	0 S 0 S	0.0	0.0	0:00.00 kauditd 0:00.00 khungtaskd
	root	20 20	0 0	0 0	0 0	0 S 0 S	0.0 0.0	0.0 0.0	0:00.00 khungtaskd 0:00.00 oom_reaper
	root root		-20	0	0	0 S	0.0	0.0	0:00.00 oom_reaper 0:00.00 writeback
	root	0 20	-20 0	0	0	0 I 0 S	0.0	0.0	0:00.00 writeback 0:00.00 kcompactd0
	root	20 25		0	0	0 S	0.0	0.0	0:00.00 kcompactd0 0:00.00 ksmd
	root	25 39	19	0	0	0 S		0.0	0:00.00 ksmd 0:00.04 khugepaged
	root		-20	0	0	0 S	0.0	0.0	0:00.00 kintegrityd
	root		-20	0	0	0 I	0.0	0.0	0:00.00 kintegrityd 0:00.00 kblockd
	root		-20	0	0	0 I		0.0	0:00.00 blkcg_punt_bio
	root		-20	0	0	0 I		0.0	0:00.00 tpm_dev_wq
	root		-20	0	0	0 I		0.0	0:00.00 edac-poller
	root		-20	0	0	0 I		0.0	0:00.00 devfreq_wq
	root		-20	0	0	0 I	0.0	0.0	0:00.03 kworker/0:1H-kb+
	root	20		0	0	0 S		0.0	0:00.03 kworker/0:1H-kb+ 0:00.00 kswapd0
		7.0	W	V	V	w 3		W . W	

Eseguo il comando **top** (table of process) dal terminale per mostrare i processi attivi in tempo reale ed i task del kernel.

Il **PID** (process identifier) identifica il numero del processo, l'**USER**mostra il nome dell'utente mentre **COMMAND** è il programma o utility che è eseguito nella command line.

```
__(kali⊗ kali)-[~]
$ top | grep root
```

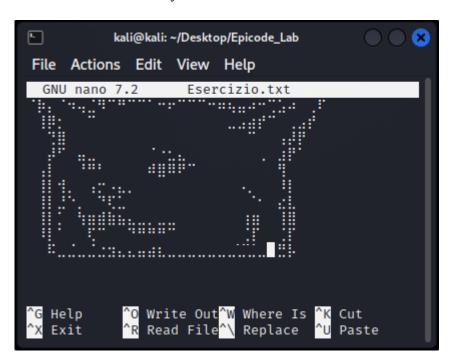


Filtro i risultati per root

```
|—(kali⊕kali)-[~]
└─$ top | grep kali
```

```
F
                                        kali@kali: ~
                                                                                       File Actions Edit View
  -(kali⊛kali)-[~]
 -$ top | grep kali
   1035
                           554444
                                    79128
                                           44472 S
                                                                   0:04.16 xfdeskt+
                   20
                        0
                                                      1.0
                                                            2.0
                   20
                        0
                           358680
                                    38592
                                           20556 S
                                                      0.3
                                                            1.0
                                                                   0:02.07 panel-1+
   1041
  15608
                   20
                        0
                            39036 16080
                                           14064 S
                                                      0.3
                                                            0.4
                                                                   0:00.01 xfce4-m+
                           441224 104280
  15609
                   20
                        0
                                           85056 S
                                                      0.3
                                                            2.6
                                                                   0:00.12 gtermin+
                   20
                                           20556 S
                                                      0.3
   1041
                        0
                           358680
                                   38592
                                                            1.0
                                                                   0:02.08 panel-1+
                                            3152 R
  15626
                   20
                        0
                            11580
                                     5048
                                                      0.3
                                                            0.1
                                                                   0:00.01 top
                                     2404
                                                            0.1
                                                                   0:03.10 VBoxCli+
    928
                   20
                        0
                           217956
                                            2060 S
                                                      0.3
                   20
                                  28628
                                           20696 S
   1043
                        0
                           415888
                                                      0.3
                                                            0.7
                                                                   0:01.92 panel-1+
    988
                   20
                        0 1235692 105692
                                           77192 R
                                                      0.3
                                                            2.6
                                                                   0:03.39 xfwm4
    928
                   20
                        0
                           217956
                                     2404
                                            2060 S
                                                      0.3
                                                            0.1
                                                                   0:03.11 VBoxCli+
                                   38592
                                           20556 S
                   20
                        0
                           358680
                                                      0.7
                                                                   0:02.10 panel-1+
   1041
                                                            1.0
                        0 1235692 105692
                   20
                                           77192 S
    988
                                                      0.3
                                                            2.6
                                                                   0:03.40 xfwm4
                                                                   0:04.18 xfdeskt+
                           554444
                                    79128
                                           44472 S
                                                      0.7
   1035
                   20
                        0
                                                            2.0
   1043
                   20
                        0
                           415888
                                    28628
                                           20696 S
                                                      0.7
                                                            0.7
                                                                   0:01.94 panel-1+
    928
                           217956
                                     2404
                                            2060 S
                                                            0.1
                   20
                        0
                                                      0.3
                                                                   0:03.12 VBoxCli+
                                                            1.1
                           592940 43696
                                           34444 S
   1044
                   20
                        0
                                                      0.3
                                                                   0:00.71 panel-1+
```

Mi muovo nelle directory e creo il file Esercizio.txt



Modifico con l'editor di testo

```
kali@kali:~/Desktop/Epicode_Lab

File Actions Edit View Help

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

$ cat Esercizio.txt

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

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

Leggo il file con il comando cat

```
File Actions Edit View Help

$\square$ cat Esercizio.txt

$\tilde{\text{cat Esercizio.txt}}

$\text{cat Esercizio.txt}

$\tilde{\text{cati} \text{kali} \text{kali} \text{catio.txt}}

$\text{cati} \text{kali} \text{kali} \text{lali} \text{kali} \text{lali} \text{kali} \text{lali} \text{kali} \text{lali} \text{catio.txt}}

$\text{chmod } 764 \text{ Esercizio.txt}

$\text{kali} \text{kali} \text{-\text{catio.txt}}

$\text{kali} \text{kali} \text{-\text{catio.txt}}

$\text{kali} \text{kali} \text{-\text{catio.txt}}

$\text{kali} \text{kali} \text{-\text{catio.txt}}

$\text{chmod } 764 \text{ Esercizio.txt}

$\text{kali} \text{kali} \text{-\text{catio.txt}}

$\text{chmod } 764 \text{ Esercizio.txt}

$\text{cation} \text{kali} \text{-\text{catio.txt}}

$\text{chmod } 764 \text{ Esercizio.txt}

$\text{cation} \text{cation} \text{cation}
```

Controllo i permessi con ls -la e poi li cambio, 7rwx 6rw e 4r per il file creato

```
kali@kali: ~/Desktop/Epicode_Lab

File Actions Edit View Help

____(kali: kali) - [~/Desktop/Epicode_Lab]

$ sudo useradd meow
[sudo] password for kali:
```

Aggiungo l'user meow

```
(kali@kali)-[~]
$ sudo passwd meow
[sudo] password for kali:
New password:
Retype new password:
passwd: password updated successfully
```

Imposto la password

```
$ chmod 363 Esercizio.txt
```

Cambio i permessi 3r 6rw e 3r

```
___(kali⊕ kali)-[~/Desktop/Epicode_Lab]

$ sudo mv Esercizio.txt /
```

Sposto il file nella cartella root

```
E
                      kali@kali: ~/Desktop/Epicode_Lab
File Actions Edit View Help
  -(kali@kali)-[~/Desktop/Epicode_Lab]
—$ su meow
Password:
$ cd /
$ dir
bin
     home
                    lib32
                               media root swapfile var
boot initrd.img
                    lib64
                                                     vmlinuz
                                mnt run
                                            sys
     initrd.img.old libx32
                                                     vmlinuz.old
                                      sbin
dev
                                opt
                                            tmp
etc
     lib
                    lost+found proc
                                            usr
                                      srv
$ cd /root
sh: 3: cd: can't cd to /root
```

L'errore sh3 riflette l'user creato che non ha i permessi per muoversi in root

```
<u>-</u>
                                 root@kali:/
File Actions Edit View Help
   (root⊗kali)-[~]
cd /
—(root⊕kali)-[/]
—#_su kali
  -(kali⊕kali)-[/]
_$ <u>sudo</u> su -
[sudo] password for kali:
   root⊗ kali)-[~]
dir
bin
                                 lib64
                home
                                              opt
                                                     srv
                initrd.img
                                 libx32
boot
                                              proc swapfile vmlinuz
dev
                initrd.img.old lost+found root sys
                                                               vmlinuz.old
                                 media
Esercizio.txt lib
                                              run
                                                    tmp
                lib32
                                 mnt
                                              sbin usr
   (root@kali)-[/]
chmod 767 Esercizio.txt
     oot⊗kali)-[/]
__(root⊗k
su meow
$ cat Esercizio.txt
```

sudo su -e modifico i permessi per il file, torno sull'user creato e apro il file

```
root@kali:/home/kali/Desktop

File Actions Edit View Help

(kali@kali)-[/]

$ sudo su -
[sudo] password for kali:

(root@kali)-[~]

# cd /

(root@kali)-[/]

# rm Esercizio.txt

(root@kali)-[/]

# cd /home/kali/Desktop

(root@kali)-[/home/kali/Desktop]

# rmdir Epicode_Lab
```

Alla fine elimino sia il file che la cartella