top - 08:21:21 up 4 min, 1 user, load average: 0.29, 0.26, 0.11
Tasks: 155 total,   1 running, 154 sleeping,   0 stopped,   0 zombie
%Cpu(s): 0.7 us, 1.0 sy, 0.0 ni, 98.1 id, 0.0 wa, 0.0 hi, 0.2 si, 0.0 st
MiB Mem :   1981.2 total,   492.6 free,   1014.7 used,   473.9 buff/cache
MiB Swap: 1024.0 total,   1024.0 free,   0.0 used.   813.0 avail Mem

PID	USER	PR	NI	VIRT	RES	SHR	S	%CPU	%MEM	TIME+	COMMAND
652	root	20	0	385804	114388	61008	S	1.0	5.6	0:07.26	Xorg
963	kali	20	0	352444	31592	21980	S	1.0	1.6	0:01.80	panel-13-cpugra
914	kali	20	0	865560	103588	76948	S	0.7	5.1	0:01.64	xfwm4
131	root	20	0	0	0	0	I	0.3	0.0	0:00.09	kworker/1:2-events
149	root	20	0	0	0	0	I	0.3	0.0	0:00.28	kworker/0:2-events
965	kali	20	0	350260	30740	21008	S	0.3	1.5	0:00.86	panel-15-genmon
1545	kali	20	0	464992	103340	84708	S	0.3	5.1	0:01.22	qterminal
1644	kali	20	0	10200	3664	3056	R	0.3	0.2	0:00.12	top
1	root	20	0	102156	12060	8928	S	0.0	0.6	0:01.01	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
7	root	20	0	0	0	0	I	0.0	0.0	0:00.00	kworker/0:0-rcu_gp
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	0:00.04	kworker/u4:0-events_unbound
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	0:00.04	ksoftirqd/0
15	root	20	0	0	0	0	I	0.0	0.0	0:00.14	rcu_preempt
16	root	rt	0	0	0	0	S	0.0	0.0	0:00.00	migration/0
17	root	20	0	0	0	0	I	0.0	0.0	0:00.03	kworker/0:1-ata_sff
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	0:00.15	migration/1
21	root	20	0	0	0	0	S	0.0	0.0	0:00.02	ksoftirqd/1

Con PID, Process Identifier, si indica il numero con cui ogni processo viene identificato

Con USER si indica l'utente che avvia il processo

Con COMMAND si indica il comando usato per creare il processo

Filtro root

top - 08:26:31 up 9 min, 1 user, load average: 0.29, 0.23, 0.12
652	root	20	0	385804	114388	61008	S	22.5	5.6	0:12.86	Xorg
15	root	20	0	0	0	0	I	0.3	0.0	0:00.36	rcu_preempt
1	root	20	0	102156	12060	8928	S	0.0	0.6	0:01.01	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	0:00.06	kworker/u4:0-events_unbound
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	0:00.06	ksoftirqd/0
652	root	20	0	385804	114388	61008	R	5.0	5.6	0:13.01	Xorg
9	root	20	0	0	0	0	I	0.3	0.0	0:00.07	kworker/u4:0-events_unbound
2555	root	20	0	0	0	0	I	0.3	0.0	0:00.11	kworker/0:0-mm_percpu_wq
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	0:00.06	ksoftirqd/0
15	root	20	0	0	0	0	I	0.0	0.0	0:00.36	rcu_preempt
18	root	20	0	0	0	0	S	0.0	0.0	0:00.00	cpuhp/0

Filtro kali

```
  ┌──(kali㉿kali)-[/home/kali]
  └─PS> top | grep kali
```
				0	0	0	I	0.0	0.0	0:00.00	kworker/1:0H-events_highpri
				0	0	0	S	0.0	0.0	0:00.00	kdevtmpfs
1548	kali	20	0	3686172	102912	61116	S	6.2	5.1	0:02.60	pwsh
3438	kali	20	0	10200	3704	3092	R	6.2	0.2	0:00.01	top
1548	kali	20	0	3686188	102912	61116	S	1.7	5.1	0:02.65	pwsh
963	kali	20	0	352444	31592	21980	S	1.0	1.6	0:05.45	panel-13-cpugra
914	kali	20	0	865560	105804	76948	S	0.7	5.2	0:03.45	xfwm4
965	kali	20	0	350260	30740	21008	S	0.3	1.5	0:02.93	panel-15-genmon
966	kali	20	0	665836	45764	34604	S	0.3	2.3	0:00.86	panel-16-pulsea
1545	kali	20	0	464908	103640	84868	S	0.3	5.1	0:05.87	qterminal
3438	kali	20	0	10200	3704	3092	R	0.3	0.2	0:00.02	top
963	kali	20	0	352444	31592	21980	S	0.7	1.6	0:05.47	panel-13-cpugra
965	kali	20	0	350260	30740	21008	S	0.7	1.5	0:02.95	panel-15-genmon
1545	kali	20	0	464804	103644	84868	S	0.7	5.1	0:05.89	qterminal
865	kali	20	0	152916	2720	2240	S	0.3	0.1	0:01.26	VBoxClient
914	kali	20	0	865560	105804	76948	S	0.3	5.2	0:03.46	xfwm4
1548	kali	20	0	3686188	102912	61116	S	0.3	5.1	0:02.66	pwsh
3438	kali	20	0	10200	3704	3092	R	0.3	0.2	0:00.03	top

```
┌──(kali㉿kali)-[/home/kali]
└─PS> cd Desktop

┌──(kali㉿kali)-[/home/kali/Desktop]
└─PS> mkdir Epicode_Lab

┌──(kali㉿kali)-[/home/kali/Desktop]
└─PS> cd Epicode_Lab

┌──(kali㉿kali)-[/home/kali/Desktop/Epicode_Lab]
└─PS> touch Esercizio.txt

┌──(kali㉿kali)-[/home/kali/Desktop/Epicode_Lab]
└─PS> nano Esercizio.txt

┌──(kali㉿kali)-[/home/kali/Desktop/Epicode_Lab]
└─PS> cat Esercizio.txt
modifica del file come da consegna esercizio
```

Creazione directory e file modificato successivamente alla creazione

```
┌──(kali㉿kali)-[/home/kali/Desktop/Epicode_Lab]
└─PS> ls -l
total 4
-rw-r--r-- 1 kali kali 48 Jan 31 08:47 Esercizio.txt

┌──(kali㉿kali)-[/home/kali/Desktop/Epicode_Lab]
└─PS> chmod u+x Esercizio.txt

┌──(kali㉿kali)-[/home/kali/Desktop/Epicode_Lab]
└─PS> chmod g+w Esercizio.txt

┌──(kali㉿kali)-[/home/kali/Desktop/Epicode_Lab]
└─PS> ls -l
total 4
-rwxrw-r-- 1 kali kali 48 Jan 31 08:47 Esercizio.txt

┌──(kali㉿kali)-[/home/kali/Desktop/Epicode_Lab]
└─PS> useradd kalipiccolo
useradd: Permission denied.
useradd: cannot lock /etc/passwd; try again later.

┌──(kali㉿kali)-[/home/kali/Desktop/Epicode_Lab]
└─PS> sudo useradd kalijr
[sudo] password for kali:

┌──(kali㉿kali)-[/home/kali/Desktop/Epicode_Lab]
└─PS> sudo passwd kalijr
New password:
Retype new password:
passwd: password updated successfully
```

Controllo e successiva modifica permessi su file Esercizio.txt

```
┌──(kali㉿kali)-[/home/kali/Desktop/Epicode_Lab]
└─PS> chmod o-r Esercizio.txt

┌──(kali㉿kali)-[/home/kali/Desktop/Epicode_Lab]
└─PS> sudo mv Esercizio.txt /
```

Cambiamento permessi per "other" e movimentazione file verso root directory

```
┌──(kali㉿kali)-[/home/kali/Desktop]
└─PS> su kalijr
Password:
$
```
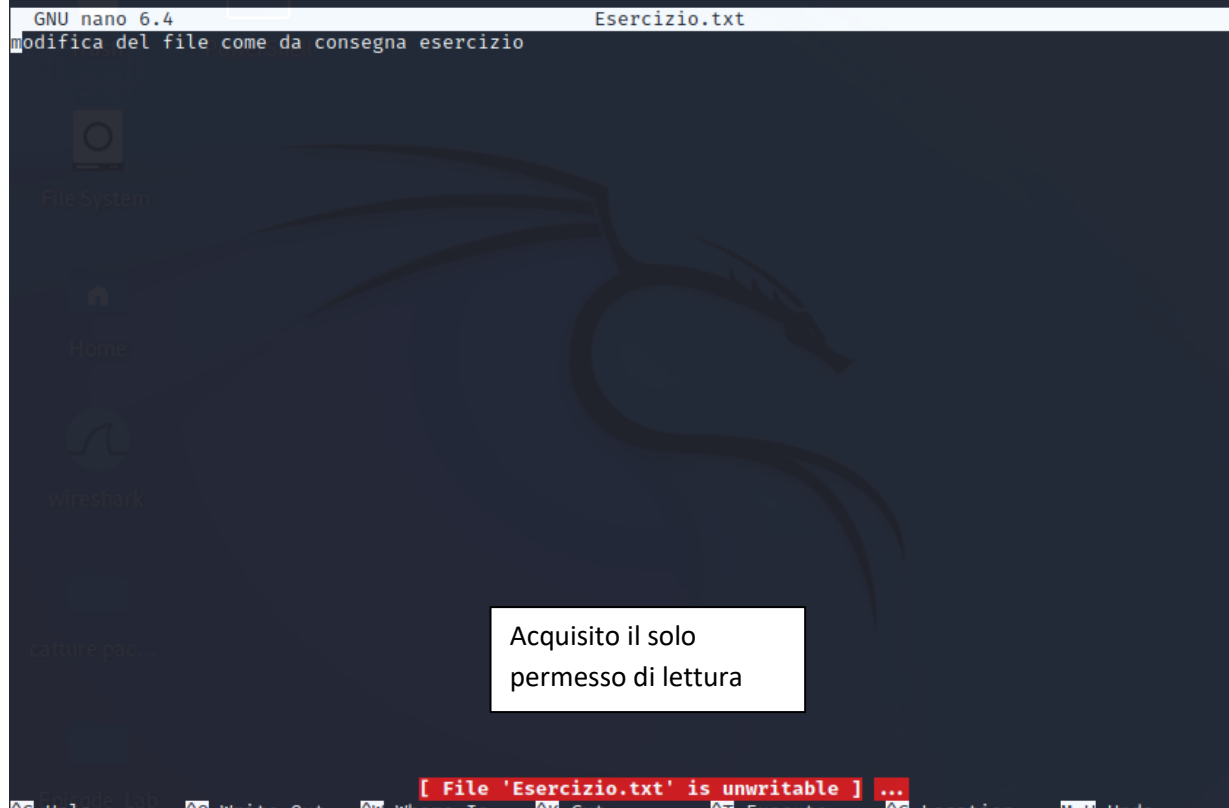
Accesso col nuovo user

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

```
GNU nano 6.4                          New Buffer







[ Error reading Esercizio.txt: Permission denied ] ...
```
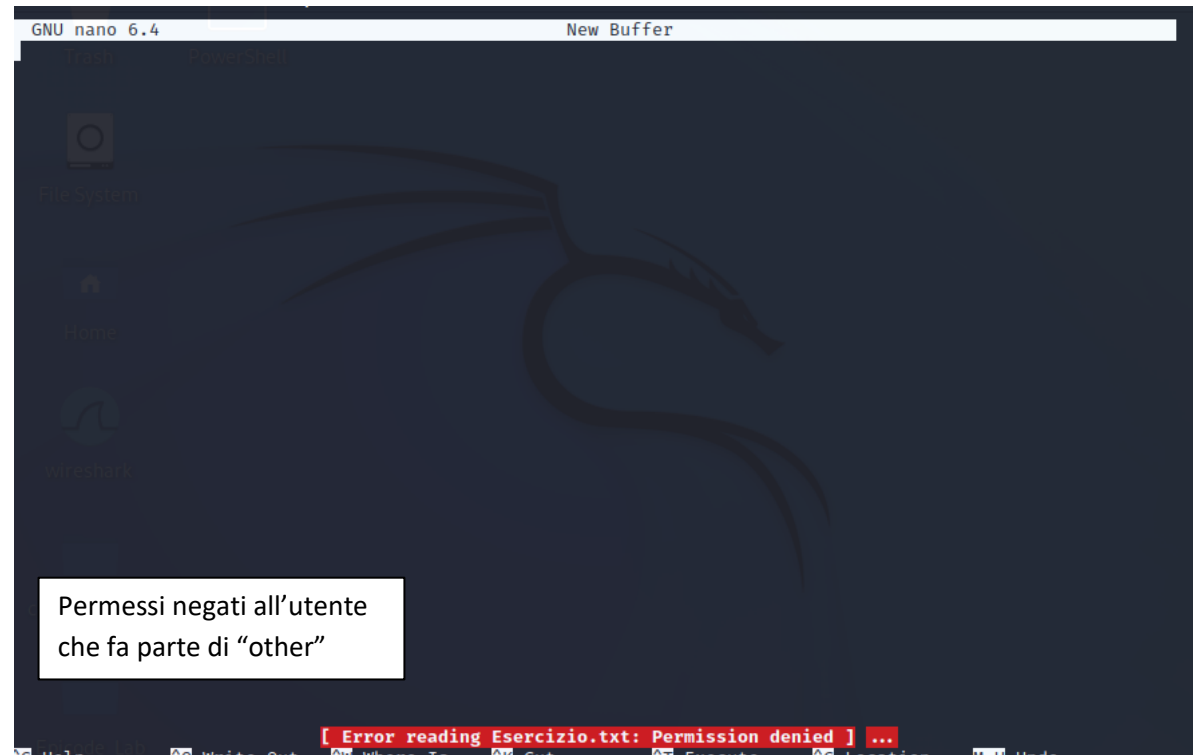
Permessi negati all'utente che fa parte di "other"

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

```
  GNU nano 6.4                              Esercizio.txt
modifica del file come da consegna esercizio
```

Acquisito il solo
permesso di lettura

```
[ File 'Esercizio.txt' is unwritable ] ...
```

```
┌──(kali㉿kali)-[/]
└─$ sudo rm Esercizio.txt
[sudo] password for kali:
```

Ripristino scenario iniziale

```
┌──(kali㉿kali)-[/home/kali]
└─PS> sudo userdel kalijr
[sudo] password for kali:

┌──(kali㉿kali)-[/home/kali]
└─PS> cd Desktop

┌──(kali㉿kali)-[/home/kali/Desktop]
└─PS> rmdir Epicode_Lab
```