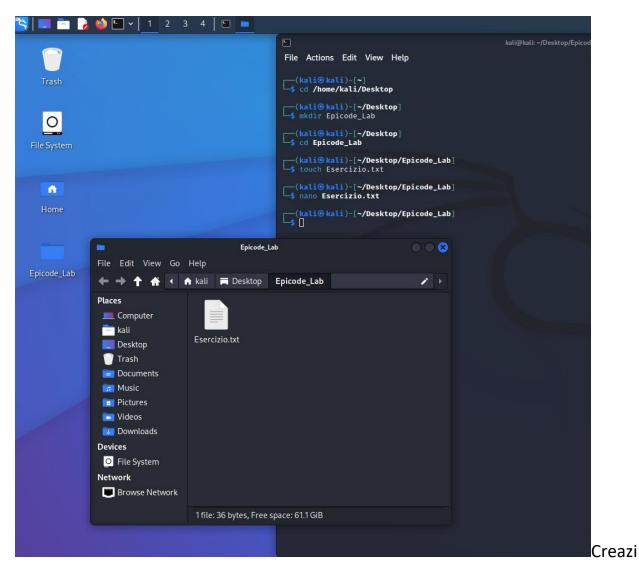
	_							kali@	@kali: ~
le Ac	tions	Edit \	View	Help					
o - 08	8:26:	48 up 2	min.	. 1 user	. load	average:	0.64.	0.47.	0.19
				inning, 1			stoppe		Ø zombie
pu(s):	: 3.	9 us,	1.7	sy, 0.0	ni, 94.3	id, 0.0	wa,	0.0 hi	i, 0.2 si, 0.0 st
B Mem		1981.2	total	l, 1002	.4 free,	576.5	used,	40	02.3 buff/cache
B Swap	p: :	1024.0	total	l, 1024	.0 free,	0.0	used.	125	53.9 avail Mem
DIE				1/707	200	CHD C	arce.	001511	TTUE COUNTY
	USER					SHR S	%CPU	%MEM	TIME+ COMMAND
	root kali	2			125884	56768 S 18328 S	4.3 2.3	6.2 1.4	0:06.17 Xorg 0:02.74 panel-13-cpugra
	kali	2			108576	89228 S	2.3	5.4	0:02.74 panet-13-cpugra 0:02.74 qterminal
1562		2				3056 R	1.0	0.2	0:00.27 top
	kali	2				2224 S	0.3	0.1	0:00.28 VBoxClient
	kali	2			104368	77280 S	0.3	5.1	0:01.65 xfwm4
	kali	2				20540 S	0.3	1.5	0:00.83 panel-15-genmon
954	kali	2	0 (665856	45496	34304 S	0.3	2.2	0:00.51 panel-16-pulsea
	root	2	0 (8920 S	0.0	0.6	0:01.75 systemd
	root				0	0 S	0.0	0.0	0:00.00 kthreadd
	root		0 -20) (0	0 I	0.0	0.0	0:00.00 rcu_gp
	root		0 -20			0 I	0.0	0.0	0:00.00 rcu_par_gp
	root		0 -20			0 I	0.0	0.0	0:00.00 slub_flushwq
	root		0 -20			0 I	0.0	0.0	0:00.00 netns
	root					0 I	0.0	0.0	0:00.00 kworker/0:0-cgroup_destroy
	root		0 -20			0 I	0.0	0.0	0:00.00 kworker/0:0H-events_highpri
	root					0 I	0.0	0.0	0:00.05 kworker/u4:0-events_unbound
	root		0 -20 0 (0 I	0.0	0.0	0:00.00 mm_percpu_wq
	root					0 I 0 I	0.0	0.0 0.0	0:00.00 rcu_tasks_kthread
	root					0 I	0.0	0.0	0:00.00 rcu_tasks_rude_kthread 0:00.00 rcu_tasks_trace_kthread
	root					0 S	0.0	0.0	0:00.02 ksoftirgd/0
	root			•		0 I	0.0	0.0	0:00.15 rcu_preempt
	root					0 S	0.0	0.0	0:00.00 migration/0
	root					0 I	0.0	0.0	0:00.02 kworker/0:1-events
	root					0 S	0.0	0.0	0:00.00 cpuhp/0
19	root		0 () (0	0 S	0.0	0.0	0:00.00 cpuhp/1
20	root	r	t (0 (0	0 S	0.0	0.0	0:00.22 migration/1
	root					0 S	0.0	0.0	0:00.05 ksoftirqd/1
	root					0 I	0.0	0.0	0:00.00 kworker/1:0-events
	root		0 -20			0 I	0.0	0.0	0:00.00 kworker/1:0H-events_highpri
	root					0 I	0.0	0.0	0:01.31 kworker/u4:1-writeback
	root					0 S	0.0	0.0	0:00.00 kdevtmpfs
	root		0 -20			0 I	0.0	0.0	0:00.00 inet_frag_wq
28 29	root					0 S 0 S	0.0	0.0 0.0	0:00.00 kauditd
	root					0 S	0.0	0.0	0:00.00 khungtaskd 0:00.00 oom_reaper
	root					0 I	0.0	0.0	0:00.04 kworker/u4:2-events_unbound
	root		0 -20			0 I	0.0	0.0	0:00.00 writeback
	root					0 S	0.0	0.0	0:00.00 kcompactd0
	root					0 S	0.0	0.0	0:00.00 ksmd
	root					0 S	0.0	0.0	0:00.06 khugepaged
	root		0 -20			0 I	0.0	0.0	0:00.00 kintegrityd
37	root		0 -20) (0	0 I	0.0	0.0	0:00.00 kblockd
38	root		0 -20) (0	0 I	0.0	0.0	0:00.00 blkcg_punt_bio
	root		0 -20			0 I	0.0	0.0	0:00.00 tpm_dev_wq
40	root		0 -20) (0	0 I	0.0	0.0	0:00.00 edac-poller

comando "top" possiamo vedere tutti i processi attivi sulla macchina, e per ognuno di loro vengono fornite varie informazioni come il PID, che sta per process identifier ed è un numero univoco che rappresenta un determinato processo, nella colonna user invece troviamo il nome dell' utente che ha avviato il processo, infine la colonna command ci mostra il nome a basso livello che identifica il processo.

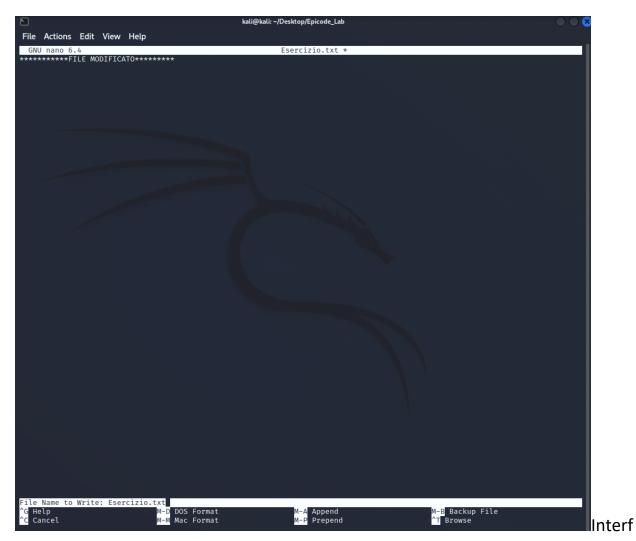
File Actions Edit View Help									
top - 08:48:30 up	24 min	, 1 user, lo	ad average:	0.25,	0.17,	0.12			
621 root	20 0			1.7	6.2	0:33.82 Xorg			
136 root	20 0		0 0 I	0.3	0.0	0:01.70 kworker/1:2-events_freezable_power_			
1 root 2 root	20 0			0.0	0.6	0:01.80 systemd			
	20 0		0 0 S	0.0	0.0	0:00.00 kthreadd			
3 root	0 -20		0 0 I	0.0	0.0	0:00.00 rcu_gp			
4 root	0 -20		0 0 I	0.0	0.0	0:00.00 rcu_par_gp			
3 1001	0 -20		0 0 I	0.0	0.0	0:00.00 slub_flushwq			
6 root	0 -20		0 0 I	0.0	0.0	0:00.00 netns			
8 root 10 root	0 -20 0 -20		0 0 I 0 0 I	0.0	0.0	0:00.00 kworker/0:0H-events_highpri			
10 root	20 0		0 01	0.0	0.0	0:00.00 mm_percpu_wq			
12 root	20 0		0 0 I	0.0	0.0	0:00.00 rcu_tasks_kthread 0:00.00 rcu_tasks_rude_kthread			
13 root	20 0		0 0 I	0.0	0.0	0:00.00 rcu_tasks_trace_kthread			
14 root	20 0		0 05	0.0	0.0	0:00.06 ksoftirqd/0			
15 root	20 0		0 0 1	0.0	0.0	0:01.03 rcu_preempt			
16 root	rt 0		0 05	0.0	0.0	0:00.01 migration/0			
18 root	20 0		0 05	0.0	0.0	0:00.00 cpuhp/0			
19 root	20 0		0 05	0.0	0.0	0:00.00 cpuhp/1			
20 root	rt 0		0 05	0.0	0.0	0:00.23 migration/1			
21 root	20 0	0	0 0 S	0.0	0.0	0:00.08 ksoftirgd/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	0:00.00 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			
31 root	20 0		0 0 I	0.0	0.0	0:00.28 kworker/u4:2-ext4-rsv-conversion			
32 root	0 -20		0 0 I	0.0	0.0	0:00.00 writeback			
33 root	20 0		0 0 S	0.0	0.0	0:00.07 kcompactd0			
34 1001	25 5		0 0 S	0.0	0.0	0:00.00 ksmd			
35 root	39 19		0 0 S 0 0 I	0.0	0.0	0:00.27 khugepaged			
36 root 37 root	0 -20 0 -20		0 0 I 0 0 I	0.0 0.0	0.0	0:00.00 kintegrityd 0:00.00 kblockd			
38 root	0 -20		0 0 I	0.0	0.0 0.0	0:00.00 blkcg_punt_bio			
39 root	0 -20		0 0 I	0.0	0.0	0:00.00 tpm_dev_wq			
40 root	0 -20		0 0 I	0.0	0.0	0:00.00 edac-poller			
41 root	0 -20		0 0 I	0.0	0.0	0:00.00 devfreq_wq			
4.2	0 -20		0 0 I	0.0	0.0	0:00.12 kworker/0:1H-kblockd			
42 root	20 0		0 05	0.0	0.0	0:00.00 kswapd0			
49 root	0 -20	0	0 0 I	0.0	0.0	0:00.00 kthrotld			
51 root	0 -20	0	0 0 I	0.0	0.0	0:00.00 acpi_thermal_pm			
52 root	20 0	0	0 0 S	0.0	0.0	0:00.00 xenbus_probe			
49 root	0 -20	0	0 0 I	0.0	0.0	0:00.00 kthrotld			
51 root	0 -20	0	0 0 I	0.0	0.0	0:00.00 acpi_thermal_pm			
52 root	20 0		0 0 S	0.0	0.0	0:00.00 xenbus_probe			
54 root	0 -20		0 0 I	0.0	0.0	0:00.00 mld			
51 root	0 -20		0 0 I	0.0	0.0	0:00.00 acpi_thermal_pm			
52 root	20 0		0 0 S	0.0	0.0	0:00.00 xenbus_probe			
54 root	0 -20		0 0 I	0.0	0.0	0:00.00 mld			
55 root	0 -20		0 0 I	0.0	0.0	0:00.00 ipv6_addrconf			
56 root	0 -20		0 0 I	0.0	0.0	0:00.11 kworker/1:1H-kblockd			
61 root	0 -20		0 0 I	0.0	0.0	0:00.00 kstrp			
66 root	0 -20	0	0 0 I	0.0	0.0	0:00.00 zswap-shrink			

File Ac	tions	Edit View	v	Help						
(kal	1 G 1 1 3 1	li)-[~]								
\$ top		ep kali								
7275	kali	20	0	10200	3732	3072 R	18.8	0.2	0:00.04 top	
948		20	ø	203960	31624	18328 S	3.3	1.6	0:38.40 panel-13-cpugra	
5566		20	0	466744		86712 S	1.3	5.2	0:09.17 qterminal	
953		20	0	358432	30400	20572 S	1.0	1.5	0:12.35 panel-15-genmon	
7275		20	0	10200	3732	3072 R	1.0	0.2	0:00.07 top	
890		20	0	933664	106416	77276 S	0.7	5.2	0:07.76 xfwm4	
756		20	0	9520	5428	4380 S	0.3	0.3	0:01.14 dbus-daemon	
954		20	0	665856	45496	34304 S	0.3	2.2	0:02.76 panel-16-pulsea	
948		20	0	203960	31624	18328 S	3.3	1.6	0:38.50 panel-13-cpugra	
5566		20	0	466744		86712 S	1.3	5.2	0:09.21 qterminal	
7275		20	0	10200	3732	3072 R	1.0	0.2	0:00.10 top	
837		20	0	152916	2704	2224 S	0.7	0.1	0:04.28 VBoxClient	
953		20	0	358432	30400	20572 S	0.7	1.5	0:12.37 panel-15-genmon	
890 948		20 20	0	933664 203960	31624	77276 S 18328 S	0.3	5.2 1.6	0:07.77 xfwm4	
5566		20	0	466744		86712 S	2.6	5.2	0:38.60 panel-13-cpugra 0:09.29 qterminal	
953		20	0	358432	30400	20572 S	1.0	1.5	0:12.40 panel-15-genmon	
7275		20	ø	10200	3732	3072 R	1.0	0.2	0:00.13 top	
890		20	ø	933664		77276 S	0.7	5.2	0:07.79 xfwm4	
945		20	ø	479116	60476	35600 S	0.3	3.0	0:02.22 xfdesktop	
954		20	0	665856	45496	34304 S	0.3	2.2	0:02.77 panel-16-pulsea	
5566		20	0	467004		86712 S	10.6	5.2	0:09.61 gterminal	
948		20	0	203960	31624	18328 S	2.6	1.6	0:38.68 panel-13-cpugra	
890		20	0	933664	106416	77276 S	1.0	5.2	0:07.82 xfwm4	
837		20	0	152916	2704	2224 S	0.7	0.1	0:04.30 VBoxClient	
878		20	0	164428	7852	7004 S	0.7	0.4	0:00.24 at-spi2-registr	
953		20	0	358432	30400	20572 S	0.7	1.5	0:12.42 panel-15-genmon	
766		20	0	267568	26560	16668 S	0.3	1.3	0:00.57 xfce4-session	
868		20	0	9220	4848	4308 S	0.3	0.2	0:00.14 dbus-daemon	
914		20	0	230756	28692	18728 S	0.3	1.4	0:00.57 xfsettingsd	
945 954		20 20	0	479116 665856	60476 45496	35600 S 34304 S	0.3	3.0	0:02.23 xfdesktop 0:02.78 panel-16-pulsea	
983		20	0	463240	46404	31532 S	0.3	2.3	0:00.39 xfce4-notifyd	
5566		20	0	467028		86712 S	10.6	5.2	0:09.93 qterminal	
948		20	ø	203960	31624	18328 S	2.7	1.6	0:38.76 panel-13-cpugra	
890		20	ø	933664		77276 S	1.0	5.2	0:07.85 xfwm4	
7275		20	0	10200	3732	3072 R	0.7	0.2	0:00.15 top	
756		20	0	9520	5428	4380 S	0.3	0.3	0:01.15 dbus-daemon	
837		20	0	152916	2704	2224 S	0.3	0.1	0:04.31 VBoxClient	
953		20	0	358432	30400	20572 S	0.3	1.5	0:12.43 panel-15-genmon	
954		20	0	665856	45496	34304 S	0.3	2.2	0:02.79 panel-16-pulsea	
5566		20	0	467044		86712 R	16.2	5.2	0:10.42 qterminal	
948		20	0	203960	31624	18328 S	3.6	1.6	0:38.87 panel-13-cpugra	
890		20	0	933664		77276 S	1.0	5.2	0:07.88 xfwm4	
953		20	0	358432	30400	20572 S	1.0	1.5	0:12.46 panel-15-genmon	
7275 837		20 20	0	10200 152916	3732 2704	3072 R 2224 S	1.0 0.3	0.2	0:00.18 top	
5566		20	0	152916 467056		86712 S	17.4	0.1 5.2	0:04.32 VBoxClient 0:10.95 gterminal	
948		20	0	203960	31624	18328 S	3.0	1.6	0:38.96 panel-13-cpugra	
7275		20	0	10200	3732	3072 R	1.3	0.2	0:00.22 top	
890		20	0	933664		77276 S	1.0	5.2	0:07.91 xfwm4	
										Con

l'operatore pipe "|" possiamo concatenare due comandi, in questo caso top e grep, usando il secondo come filtro nell' operazione da fare, nel primo esempio è stato impostato come filtro il nome utente root, nel secondo kali. Questo tipo di filtro ci permette di organizzare in maniera più efficente ed ordinata le nostre scansioni.



one cartella e file.txt



accia nano

```
File Actions Edit View Help

(kali® kali)-[~/Desktop/Epicode_Lab]
$ ls -la
total 12
drwxr-xr-x 2 kali kali 4096 Jan 31 09:00 .
drwxr-xr-x 3 kali kali 4096 Jan 31 09:01 ..
-rw-r--r-- 1 kali kali 36 Jan 31 09:00 Esercizio.txt

(kali® kali)-[~/Desktop/Epicode_Lab]
$ chmod u+x,g+w Esercizio.txt

(kali® kali)-[~/Desktop/Epicode_Lab]
$ ls -la
total 12
drwxr-xr-x 2 kali kali 4096 Jan 31 09:00 .
drwxr-xr-x 3 kali kali 4096 Jan 31 09:01 ..
-rwxrw-r-- 1 kali kali 36 Jan 31 09:00 Esercizio.txt

Cambio
```

permessi per scrittura ed esecuzione del file

```
___(kali⊗ kali)-[~]

$ sudo useradd User2 -p kali

[sudo] password for kali:
```

Creo nuovo utente

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

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

(kali® kali)-[~/Desktop/Epicode_Lab]
$ ls -la
total 12
drwxr-xr-x 2 kali kali 4096 Jan 31 09:00 .
drwxr-xr-x 3 kali kali 4096 Jan 31 09:01 ...
-rwxrw— 1 kali kali 36 Jan 31 09:00 Esercizio.txt
```

Modifico i permessi per non far leggere il file a utenti esterni

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

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

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

$ cd --

(kali@ kali)-[~]

$ cd /

(kali@ kali)-[/]

$ cd /

$ bin boot dev Esercizio.txt etc home initrd.img initrd.img.old lib lib32 lib64 libx3
```

Trasporto in root

Tentando di accedere al file tramite utente esterno veniamo bloccati a causa dei permessi precendentemente impostati.

Modificando nuovamente i permessi possiamo eseguire il comando cat sul file e

leggere il suo contenuto.

```
(kali⊕ kali)-[~]

$ cd /

(kali⊕ kali)-[/]

$ sudo rm Esercizio.txt
[sudo] password for kali:

(kali⊕ kali)-[/]

$ cd --

(kali⊕ kali)-[~]

$ cd /home/kali/Desktop

(kali⊕ kali)-[~/Desktop]

$ sudo rmdir Epicode_Lab
```

Elimino il file e la cartella