## Report familirizzazione con shell Linux

Per prima cosa controlliamo i processi attivi sulla macchina con il comando <<TOP>>

)											kali@
ile Acti	ons l	Edit V	ew	Help							
op - 09:	29:53	up 5	:03,	1 user,	load	average:	0.05,	0.10,	0.14		
sks: <b>15</b>				nning, <b>1</b> 5			stoppe		zombie		
Cpu(s): iB Mem :		us, <b>1</b> <b>81.3</b> t		, <b>0.0</b> r	ni, <b>96.4</b> 5 free,	id, 0.0		0.0 hi	, <b>0.3</b> si <b>5.1</b> buff/o	, 0.0 st	
iB Swap:		24.0 t			6 free,		used.		2.6 avail		
DIE	ICED.	DD	NT	MITOT	DEC	CUD C	e/CDII	0/11511	TTHE	COMMAND	
PID 0		PR 20	NI 0	VIRT 623128	RES 302208	SHR S 80816 S	%CPU 1.6	%MEM 14.9	2:57.97	COMMAND	
67500 k		20	ø	437920		89068 S	1.3	5.3		qterminal	
872 k		20	0	353152	34948	21856 S	1.0	1.7		panel-13-cpugra	
878 k		20	0	359140	25236	20124 S	0.7	1.2		panel-15-genmon	
<b>75815</b> k		<b>20</b> 20	<b>0</b> 0	<b>10408</b> 153000	<b>3876</b> 3208	<b>3192 R</b> 3052 S	<b>0.7</b> 0.3	<b>0.2</b> 0.2	0:00.14	VBoxClient	
828 k		20 20	0	948544		74388 S	0.3	5.0	1:24.30		
879 k		20	ő	667628	38956	31864 S	0.3	1.9		panel-16-pulsea	
73667 r	oot	20	0	0	0	0 I	0.3	0.0		kworker/0:1-events	
	oot	20	0	102412	12080	9012 S	0.0	0.6		systemd	
	oot	20	0	0	0	0 S	0.0	0.0		kthreadd	
	oot	0 0	-20 -20	0 0	0	0 I 0 I	0.0 0.0	0.0 0.0	0:00.00	rcu_gp rcu_par_gp	
	oot	0	-20	0	0	0 I	0.0	0.0	0:00.00		
	oot	0	-20	Ø	0	0 I	0.0	0.0		kworker/0:0H-events_highpri	
9 r	oot	0	-20	0	0	0 I	0.0	0.0	0:00.79	kworker/0:1H-kblockd	
10 r		0	-20	0	0	0 I	0.0	0.0		mm_percpu_wq	
11 1 12 1		20 20	0	0 0	0 0	0 I 0 I	0.0	0.0		rcu_tasks_kthread	
	oot	20 20	0	0	0	0 I	0.0 0.0	0.0 0.0		rcu_tasks_rude_kthread rcu_tasks_trace_kthread	
	oot	20	ø	0	0	0 S	0.0	0.0		ksoftirqd/0	
	oot	20	0	0	0	0 I	0.0	0.0		rcu_preempt	
16 r		rt	0	0	0	0 S	0.0	0.0		migration/0	
	oot	20	0	0	0	0 S	0.0	0.0		cpuhp/0	
19 r 20 r	oot	20 rt	0	0 0	0 0	0 S 0 S	0.0 0.0	0.0 0.0		cpuhp/1 migration/1	
20 I		20	0	0	0	0 S	0.0	0.0		ksoftirqd/1	
23 i		0	-20	0	ő	0 I	0.0	0.0		kworker/1:0H-events_highpri	
26 r		20	0	0	0	0 S	0.0	0.0		kdevtmpfs	
	oot	0	-20	0	0	0 I	0.0	0.0		inet_frag_wq	
	oot	20	0	0	0	0 S	0.0	0.0		kauditd	
	oot	20 20	0	0	0 0	0 S 0 S	0.0 0.0	0.0 0.0		khungtaskd oom reaper	
	oot	20	-20	0	0	0 I	0.0	0.0		writeback	
	oot	20	0	Ő	0	0 S	0.0	0.0		kcompactd0	
33 r	oot	25		0	0	0 S	0.0	0.0	0:00.00		
	oot	39	19	0	0	0 S	0.0	0.0		khugepaged	
	oot	0 0	-20 -20	0	0 0	0 I 0 I	0.0 0.0	0.0 0.0		kintegrityd kblockd	
36 I 37 I		0	-20 -20	0	0	0 I	0.0	0.0		blkcg_punt_bio	
	oot	0	-20	0	ø	0 I	0.0	0.0		tpm_dev_wq	
39 r		0	-20	0	0	0 I	0.0	0.0		edac-poller	
40 r		0	-20	0	0	0 I	0.0	0.0		devfreq_wq	
42 r		20	0	0	0	0 S	0.0	0.0		kswapd0	
/ <sub>4</sub> Q 2	oot :	0	-20	0	0	0 I	0.0	0.0	0:00.00	kthrotld	

Qui possiamo vedere le colonne:PID che identifica il processo in esecuzione. USER: che identifica l'utente utilizzatore del processo. TIME e COMMAND che ci dà informazioni sul periodo di tempo in cui un determinato comando è in run.

Dopodichè filtriamo i risultati sia per root ed in secondo step con kali

File Actions Edit View Help  top - 09:54:54 up 5:28, 1 user, load average: 0.24, 0.12, 0.10  583 root 20 0 629688 306348 84956 R 2.0 15.1 3:20.90  15 root 20 0 0 0 10.3 0.0 0:11.94  1 root 20 0 102412 12080 9012 S 0.0 0.6 0:01.69  2 root 20 0 0 0 0 0 0.0 0:00.01  3 root 0 -20 0 0 0 1 0.0 0.0 0:00.00  4 root 0 -20 0 0 0 1 0.0 0.0 0:00.00  5 root 0 -20 0 0 0 1 0.0 0.0 0:00.00  7 root 0 -20 0 0 0 1 0.0 0.0 0:00.00  9 root 0 -20 0 0 0 1 0.0 0.0 0:00.00
top - 09:54:54 up 5:28, 1 user, load average: 0.24, 0.12, 0.10  583 root
583 root 20 0 629688 306348 84956 R 2.0 15.1 3:20.90 15 root 20 0 0 0 0 I 0.3 0.0 0:11.94 1 root 20 0 102412 12080 9012 S 0.0 0.6 0:01.69 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
583 root 20 0 629688 306348 84956 R 2.0 15.1 3:20.90 15 root 20 0 0 0 0 I 0.3 0.0 0:11.94 1 root 20 0 102412 12080 9012 S 0.0 0.6 0:01.69 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
1 root 20 0 102412 12080 9012 S 0.0 0.6 0:01.69 2 root 20 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
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
3 root 0 -20 0 0 0 I 0.0 0.0 0:00.00
4 root 0 -20 V 0 F0 0 I 0.0 0.0 0:00.00
4 rest 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 7 root 0 -20 0 0 0 I 0.0 0.0 0:00.00
555 root
0/507 root
711 root 20 0 149.40 3.10 3.00 I 0.0 0.0 0:00.00 VBoxClient
81712 root 20 0 427.0 105.50 87.0 I 0.0 0.0 0:00.00 gterminal 813 root 20 0 850.0 24.60 19.0 I 0.0 0.0 0:00.00 bandle15-semmon
513 <b>root</b> 20 0 350.0 24.00 19.0 I 0.0 0.0 0:00.00 panel-15-germon 191 <b>14 root</b> 20 0 2911.0 325.80 148.0 S 0.0 10.0 0:01.76 Firefox-est
19312 root 20 0 2351.00 95.90 73.00 I 0.0 0.0 0:00.00 WebExtensions
75 16 boot rt 0 11 00 4 00 3 0 5 0 0 0 0 0 0 0 12 to
18 root 20 0 100 0 11 80 8 0 S 0.0 0.0 0:00.00 systems
18 root 20 0 100 0 11.00 3.0 S 0.0 0.0 0:00.00 systems 12 root 20 0 0.0 0.0 0.0 1 0.0 0.0 0:00.00
13 root 20 -20 0.00 0.00 0.00 I 0.0 0.0 0:00.00 rougp
14 root 20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
15 root 20 -20 0.00 0.00 0.00 I 0.0 0.0 0:11.90 metric
16 root rt -20 0.00 0.00 0.00 S 0.0 0.0 0:00.12 kmorker/030H-events_high
18 root 20 - 20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
19 root 20 -20 0.00 0.00 0.00 5 0.0 0.0 0:00.00 mm_percpu_wg
20 root rt 0 0.00 0.00 0.00 0.0 0.0 0:00.48 rcu_tasks_kthread
21 root 20 0 0.00 0.00 0.00 0.0 0.0 0:00.68 rcu_tasks_rude_kthread

File Ac	tions	Edit	View	/	Help						
19261			20:29		2408316	98168	75284	S	0.03	0.478	0.0:13.64 WebExtensions
872			20	0	353152		21856		1.3	d.1.70	4:05.93 panel-13-cpugra
67500			20	0		108392			1.0	0.5.31	0:20.11 qterminal
82374			20	0		107856			1.0	5.35	0:00.45 qterminal
878			20	0	359140	25236	20124		0.7	1.21	2 1:49.48 panel-15-genmon
828			20	0		101152	74388		0.3	5.0	1:31.38 xfwm4
879			20	0	667628	39196	31924		0.3	1.9	0:27.44 panel-16-pulsea
19147			20	0	2981788	334216			0.3	16.5	1:19.71 firefox-esr
75815			20	0	12172	34784	23940		0.3	0.2	0:05.94 topel-13-cpugra
82470			20	0	10408	103920	83236	R	0.3	0.2	0:00.11 toprminal
67500			20	0	437920	108392	89192	S	1.3	5.3	0:20.15 qterminal
872			20	0	353152	34948	21856	S	1.0	1.7	4:05.96 panel-13-cpugra
75815			20	0	912172	4784	73940	S	0.6	0.2	0:05.96 top://
82374			20	0	437788	107856	89008	S	0.6	5.3	0:00.47 qterminalgenmon
7 778			20	0	153000	3208	3052	S	0.3	0.2	0:55.63 VBoxClient
82828			20	0		101152	74388		0.3	5.0	1:31.39 xfwm4
878			20	0	359140	25236	20124		0.3	1.2	1:49.49 panel-15-genmon
82470			20	0	10408	3920	3236		0.3	0.2	0:00.12 top:eadd
872			20	0	353152	34948	21856		1.7	1.7	4:06.01 panel-13-cpugra
67500			20	0		108392	89192		1.0	5.3	0:20.18 qterminal
878			20 -	0	359140	25236	20124		0.7	1.2	1:49.51 panel-15-genmon
82374			20 -	0		107856	89008		0.7	5.3	0:00.49 qterminal:0H-events_highpri
82470			20 -	0	10408	3920	3236		0.7	0.2	0:00.14 toprker/0:1H-events_highpri
696			20 -	0	10356	5276	4164		0.3	0.3	0:08.05 dbus-daemon
828			20	0		101152	74388		0.3	5.0	1:31.40 xfwm4:sks_kthread
75815			20	0	12172	4784	3940		0.3	0.2	0:05.97 top_tasks_rude_kthread
82374 872			20 20	0	437788 353152	34948	89008 21856		1.6	5.3 1.7	0:00.54 qterminal 4:06.04 panel-13-cpugra
67500			20	0	437920		89192		1.0	5.3	0:20.21 qterminal
879			20	0	667628	39196	31924		0.7	1.9	0:27.46 panel-16-pulsea
778			20	0	153000	3208	3052		0.3	0.2	0:55.64 VBoxClient
828			20	0		101152	74388		0.3	5.0	1:31.41 xfwm4/1
870			20	0	585944		40124		0.3	5.1	0:03.33 xfdesktop/
878			20	0	359140	25236	20124		0.3	1.2	1:49.52 panel-15-genmon
19147			20		2981788				0.3	16.5	1:19.72 firefox-esr -events higheri
82470			20	0	10408	3920	3236	R	0.3	0.2	0:00.15 topytmofs
82374			20 -	0	437788	108200	89132	s	1.3	5.3	0:00.58 gterminal_wg
828			20	0	948544	101152	74388	s	1.0	5.0	1:31.44 xfwm41d
872			20	0	353152	34948	21856	S	1.0	1.7	4:06.07 panel-13-cpugra
67500			20	0	437920	108392	89192	S	1.0	5.3	0:20.24 qterminal
878			20 -	0	359140	25236	20124		0.6	1.2	1:49.54 panel-15-genmon
75815			20	0	12172	4784	3940		0.6	0.2	0:05.99 topopactd0
778			20	0	153000	3208	3052		0.3	0.2	0:55.65 VBoxClient
82470			20	0	10408	3920	3236		0.3	0.2	0:00.16 topgepaged
82374			20 -	0	437788		89132		1.6	5.3	0:00.63 qterminalyd
872			20 -	0	353152	34948	21856		1.3	1.7	4:06.11 panel-13-cpugra
67500			20 -	0	437920		89192		1.0	5.3	0:20.27 qterminalt_bio
828			20 -	0	948544		74388		0.7	5.0	1:31.46 xfwm4ev_vq
778			20	0	153000	3208	3052		0.3	0.2	0:55.66 VBoxClient
878			20 -	0	359140	25236	20124		0.3	1.2	1:49.55 panel-15-genmon
82470			20	0	10408	3920	3236	R	0.3	0.2	0:00.17 topand
49											

Adesso creiamo una nuova directory denominandola <<epicode\_lab>> utilizzando il comando <<mkdir /home/kali/Desktop/epicode\_lab

Quindi ci possiamo spostare nella directory appena creata e creiamo il file <<esercizio.txt>>, modificando il file con editor di

## testo <<nano>> "modifica"



Come da immagine ho modificato il file scrivendo "modifica" (salvando la modifica).

A questo punto controlliamo i permessi del file.

```
(kali® kali)-[~/epicode_lab]
total 12
drwxr-xr-x  2 kali kali 4096 Nov  2 10:37 .
drwxr-xr-x  18 kali kali 4096 Nov  2 10:22 ..
-rw-r-r--  1 kali kali  10 Nov  2 10:37 esercizio.txt

(kali® kali)-[~/epicode_lab]
```

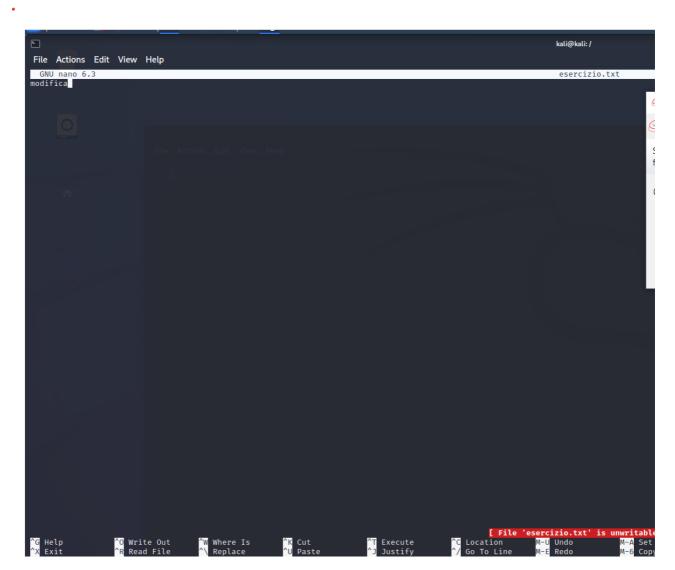
Ora cambiamo i permessi come richiesto da esercizio

```
--(kali@ kali)-[~/epicode_lab]
-$ chmod u=rwx esercizio.txt
--(kali@ kali)-[~/epicode_lab]
-$ (kali@ kali)-[~/epicode_lab]
-$ (kali@ kali)-[~/epicode_lab]
-$ (kali@ kali)-[~/epicode_lab]
```

Creiamo quindi un nuovo utente, cambiando privilegi del file in modo che altri utenti non possano leggerlo

E spostiamo il file in directory/root con il comando <<sudo mv esercizio.txt (inserendo pass Kali), cambiando utente tramite comando <<su>> quindi in questo caso << su violet>>

Provando a leggere il file, riceveremo un errore del genere:



Adesso, come richiesto cambiamo permessi al nuovo utente

```
$ su kali
Password:
    (kali® kali)-[/]
$ su violet
Password:
$ cd /
$ nano esercizio.txt
```

Una volta reso possibile ogni privilegio all'utente, procediamo alla

cancellazione di directory e file

ed infine

dell'utente con il comando << sudo userdel violet>>