

Esercizio S1_L2

Shell Linux

Top, per visualizzare i processi attivi in real time.

il campo PID fa riferimento all' identificativo del processo attivo, il campo USER specifica a chi appartiene il processo mentre il COMMAND fa riferimento al comando utilizzato per creare il processo.

PID	USER	PR	NI	VIRT	RES	SHR	S	%CPU	%MEM	TIME+	COMMAND
739	root	20	0	382836	119256	56448	S	12.3	3.0	0:47.44	Xorg
7772	simone	20	0	449536	105372	86112	S	1.3	2.6	0:02.09	qterminal
1047	simone	20	0	1020320	105300	77184	S	0.7	2.6	0:15.86	xfwm4
23	root	20	0	0	0	0	S	0.3	0.0	0:00.52	ksoftirqd/1
995	simone	20	0	218320	3200	2816	S	0.3	0.1	0:08.40	VBoxClient
1116	simone	20	0	278000	30360	19072	S	0.3	0.8	0:09.60	panel-13-cpugra
1	root	20	0	20816	12616	9288	S	0.0	0.3	0:00.89	systemd
2	root	20	0	0	0	0	S	0.0	0.0	0:00.01	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
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	0:00.46	ksoftirqd/0
15	root	20	0	0	0	0	I	0.0	0.0	0:02.01	rcu_preempt
16	root	rt	0	0	0	0	S	0.0	0.0	0:00.02	migration/0
17	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	0:00.55	migration/1

Filtro i risultati tramite il comando grep, prima i processi root e poi quelli dell' utente proprietario

```
simone@kali: ~  
File Actions Edit View Help  
top - 15:34:55 up 1:19, 1 user, load average: 0.31, 0.21, 0.17  
739 root 20 0 511428 143528 83060 S 0.7 3.6 1:01.19 Xorg  
1 root 20 0 20816 12616 9288 S 0.0 0.3 0:00.90 systemd  
2 root 20 0 0 0 0 S 0.0 0.0 0:00.01 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+  
10 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 mm_perc+  
  
simone@kali: ~  
$ top | grep simone  
1047 simone 20 0 1020320 105300 77184 S 0.7 2.6 0:18.73 xfwm4  
1116 simone 20 0 278000 30360 19072 S 0.7 0.8 0:11.26 panel-1+  
995 simone 20 0 218320 3200 2816 S 0.7 0.1 0:09.82 VBoxCli+  
1047 simone 20 0 1020320 105300 77184 S 0.3 2.6 0:18.74 xfwm4  
1116 simone 20 0 278000 30360 19072 S 0.3 0.8 0:11.27 panel-1+  
1118 simone 20 0 432288 28148 20876 S 0.3 0.7 0:11.51 panel-1+  
1156 simone 20 0 410612 21492 17024 S 0.3 0.5 0:00.36 xfce4-n+  
38567 simone 20 0 12116 5248 3200 R 0.3 0.1 0:00.01 top
```

Creazione della directory 'Epicode_Lab' all' interno della directory /Desktop.

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

(simone@kali)-[~]
$ ls -R
.:
Desktop Documents Downloads Epicode_Lab Mu

./Desktop:
Epicode_Lab
```

MI sposto nella directory appena creata e creo il file 'Esercizio.txt'.

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

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

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

Visualizzo il contenuto del file prima modificato con nano.

```
(simone@kali)-[~/Desktop/Epicode_Lab]
$ cat Esercizio.txt
Hello Epicode, I m Simone!
```

Modifico i permessi del file di testo.

```
(simone@kali)-[~/Desktop/Epicode_Lab]
$ chmod 764 Esercizio.txt

(simone@kali)-[~/Desktop/Epicode_Lab]
$ ls -la
total 12
drwxr-xr-x 2 simone simone 4096 Oct  3 15:51
drwxr-xr-x 3 simone simone 4096 Oct  3 15:47
-rwxrw-r-- 1 simone simone  27 Oct  3 15:51 Esercizio.txt
```

Creo nuovo utente 'pippo' e assegno la password.

```
(simone@kali)-[~/Desktop/Epicode_Lab]
$ sudo useradd pippo

(simone@kali)-[~/Desktop/Epicode_Lab]
$ sudo passwd pippo
New password:
Retype new password:
passwd: password updated successfully
```

Modifico nuovamente i permessi del file tale che pippo non può leggerne il contenuto

```
(simone@kali)-[~/Desktop/Epicode_Lab]
$ chmod 720 Esercizio.txt


(simone@kali)-[~/Desktop/Epicode_Lab]
$ ls -l
total 4
-rwx-w--- 1 simone simone 27 Oct  3 15:51 Esercizio.txt
```

Entro nel file come utente 'pippo'. Permessi di lettura negati.

```
[ Error reading /Esercizio.txt: Permission denied ] ...
Write Out  ^W Where Is  ^K Cut        ^T Execute   ^C Location  M-U Undo     M-A Set Mark
Read File  ^\ Replace   ^U Paste     ^J Justify   ^_ Go To Line M-E Redo     M-6 Copy
```

Modifico i permessi in modo che 'pippo' può leggere il contenuto del file.'

```
(simone@kali)-[~/Desktop/Epicode_Lab]
$ chmod 764 /Esercizio.txt
```



```
GNU nano 2.2 /Esercizio.txt
Hello Epicode, I m Simone!

KALI LINUX
"the quieter you become, the more you are able to hear"

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

Cancello quello che ho creato per l' esercizio.

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

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

```
(simone@kali)-[~]  
$ sudo userdel pippo  
[sudo] password for simone:
```