• 1. Com o "ps" verifique os processos de todos os usuários vinculados a um terminal com seus respectivos nomes;

```
root@debian:/home/kauan# ps -au

USER PID %CPU %MEM VSZ RSS TTY STAT START TIME COMMAND

kauan 865 0.0 0.1 159140 5860 tty2 Ssl+ 08:35 0:00 /usr/libexec/gdm-wayland-session /usr/bin/gnome-session
kauan 871 0.0 0.4 298492 16364 tty2 Sl+ 08:35 0:00 /usr/libexec/gnome-session-binary --systemd
kauan 30928 0.0 0.1 7840 4788 pts/0 Ss 14:56 0:00 -bash
root 30946 0.0 0.1 9992 4876 pts/0 S 14:56 0:00 su root
root 30947 0.0 0.0 7100 3868 pts/0 S 14:56 0:00 bash
root 30952 0.0 0.0 9784 3476 pts/0 R+ 14:57 0:00 ps -au
root@debian:/home/kauan#
```

• 2. Com o "ps" verifique os processos de todos os usuários com seus respectivos nomes, inclusive aqueles que não tenham sido vinculados a um terminal;

root@del	bian:/hom	e/kau	an# ps	-aux						
USER	PID	%CPU	%MEM	VSZ	RSS	TTY	' STAT	START		COMMAND
root	1	0.0	0.2	99680	10732		Ss	08:34	0:04	/sbin/init
root	2	0.0	0.0	0		?	S	08:34	0:00	[kthreadd]
root	3	0.0	0.0	0		?	I<	08:34		[rcu_gp]
root	4	0.0	0.0	0		?	I<	08:34	0:00	[rcu_par_gp]
root	6	0.0	0.0	0	0	?	I<	08:34	0:00	[kworker/0:0H-events_highpri]
root	8	0.0	0.0	0	0		I<	08:34	0:00	[mm_percpu_wq]
root	9	0.0	0.0	0	0	?	S	08:34	0:00	[rcu_tasks_rude_]
root	10	0.0	0.0	0		?	S	08:34	0:00	[rcu_tasks_trace]
root	11	0.0	0.0	0	0	?	S	08:34		[ksoftirqd/0]
root	12	0.0	0.0	0	0	?	I	08:34	0:00	[rcu_sched]
root	13	0.0	0.0	0	0	?	S	08:34	0:00	[migration/0]
root	15	0.0	0.0	0		?	S	08:34		[cpuhp/0]
root	17	0.0	0.0	0		?	S	08:34	0:00	[kdevtmpfs]
root	18	0.0	0.0	0	0	?	I<	08:34	0:00	[netns]
root	19	0.0	0.0	0	0		S	08:34		[kauditd]
root	20	0.0	0.0	0	0		S	08:34		[khungtaskd]
root	21	0.0	0.0	0	0		S	08:34	0:00	[oom_reaper]
root	22	0.0	0.0	0	0	?	I<	08:34	0:00	[writeback]
root	23	0.0	0.0	0	0		S	08:34	0:01	[kcompactd0]
root	24	0.0	0.0	0		?	SN	08:34	0:00	[ksmd]
root	25	0.0	0.0	0		?	SN	08:34	0:01	[khugepaged]
root	43	0.0	0.0	0		3	I<	08:34	0:00	[kintegrityd]
root	44	0.0	0.0	0	0	?	I<	08:34		[kblockd]
root	45	0.0	0.0	0	0		I<	08:34	0:00	[blkcg_punt_bio]
root	46	0.0	0.0	0		?	I<	08:34	0:00	[edac-poller]
root	47	0.0	0.0	0		?	I<	08:34	0:00	[devfreq_wq]
root	48	0.0	0.0	0	0	?	I<	08:34	0:04	[kworker/0:1H-kblockd]
root	51			0	0		S	08:34		[kswapd0]
root	52	0.0	0.0	0		?	I<	08:34	0:00	[kthrotld]
root	53	0.0	0.0	0		?	I<	08:34	0:00	[acpi_thermal_pm]
root	54	0.0	0.0	0	0	?	I<	08:34		[ipv6_addrconf]
root	64	0.0	0.0	0	0		I<	08:34	0:00	[kstrp]
root	67	0.0	0.0	0	0	?	I<	08:34	0:00	[zswap-shrink]

 3. Com o "ps" verifique os processos de todos os usuários vinculados a um terminal com seus respectivos nomes, além disso filtre somente os processos do seu usuário;

```
1:/nome/kauan# ps -au | grep kauan
865 0.0 0.1 159140 5860 tty2
871 0.0 0.4 298492 16364 tty2
30928 0.0 0.1 7840 4788 pts/6
30988 0.0 0.0 6200 648 pts/6
                                                                                                                                                                                                                                                                           0\!:\!00 /usr/libexec/gdm-wayland-session /usr/bin/gnome-session 0\!:\!00 /usr/libexec/gnome-session-binary --systemd
                                                                                                                                                                                                                   Ssl+ 08:35
Sl+ 08:35
kauan
kauan
                                                                                                                                                   4788 pts/0
                                                                                                                                                                                                                                                                            0:00 -bash
kauan
                                                                                                                                                        648 pts/0
                                                                                                                                                                                                                                                                            0:00 grep kauan
   oot@debian:/home/kauan#
                                                PID %CPU %MEM VSZ RSS T
834 0.0 0.2 15716 9320 ?
835 0.0 0.0 101492 2836 ?
                                                                                                                                                                                                                                                          0:00 /lib/systemd/systemd --user
0:00 (sd-pam)
                                                                                                                                                                                                      Ss 08:35
S 08:35
                                                                                                                                                                                                      S<sl 08:35
S<sl 08:35
                                                854 0.0 0.1 90460 5704 ?
855 0.0 0.6 894156 26848 ?
                                                                                                                                                                                                                                                          0:00 /usr/bin/pipewire
0:00 /usr/bin/pulseaudio --daemonize=no --log-target=journal
 auan
                                              855 0.0 0.6 884155 26848 ?
857 0.0 0.6 583740 25576 ?
861 0.0 0.2 237816 8384 ?
865 0.0 0.1 159140 5860 tty2
867 0.0 0.1 9288 5904 ?
871 0.0 0.4 298492 16364 tty2
880 0.0 0.1 35300 6556 ?
903 0.0 0.1 237240 7912 ?
913 0.0 0.2 379924 8172 ?
939 0.0 0.1 88176 4332 ?
940 0.0 0.3 349624 14164 ?
941 0.0 0.0 5964 3768 ?
942 0.0 0.4 593944 17716 ?
963 0.0 0.2 233396 8328 ?
968 0.0 0.0 3373276 243800 ?
971 0.0 0.1 307280 6500 ?
978 0.0 1.0 624356 40696 ?
980 0.0 0.1 8172 4568 ?
 auan
                                                                                                                                                                                                                                                        0:00 /usr/bin/pulseaudio --daemonize=no --log-target=journal
0:00 /usr/libexec/tracker-miner-fs
0:00 /usr/bin/gnome-keyring-daemon --daemonize --login
0:00 /usr/bin/ghome-keyring-daemon --daemonize --login
0:00 /usr/libexec/gdm-wayland-session /usr/bin/gnome-session
0:00 /usr/bin/dbus-daemon --session --address=systemd: --nofork --nopid
0:00 /usr/libexec/gnome-session-binary --systemd
0:00 /usr/libexec/gyfsd
0:00 /usr/libexec/gyfsd-fuse /run/user/1000/gyfs -f
0:00 /usr/libexec/gnome-session-ctl --monitor
0:00 /usr/libexec/gyfs-udisks2-volume-monitor
                                                                                                                                                                                                      SNsl 08:35
Sl 08:35
 auan
                                                                                                                                                                                                      Ssl+ 08:35
Ss 08:35
Sl+ 08:35
 auan
                                                                                                                                                                                                      S<1 08:35
Ssl 08:35
  auan
   auan
                                                                                                                                                                                                      S1 08:35
Ssl 08:35
                                                                                                                                                                                                                                                        0:00 /usr/libexec/gnome-session-ttl --monitor
0:00 /usr/libexec/gyfs-udisks2-volume-monitor
0:00 ssh-agent -D -a /run/user/1000/openssh_agent
0:00 /usr/libexec/gnome-session-binary --systemd-service --session=gnom
0:00 /usr/libexec/gyfs-goa-volume-monitor
0:16 /usr/bin/gnome-shell
0:00 /usr/libexec/goa-daemon
0:00 /usr/libexec/goa-daemon
0:00 /usr/libexec/goa-identity-service
0:00 /usr/libexec/goa-identity-service
0:00 /usr/bin/Xwayland:00 -rootless -noreset -accessx -core -auth /run/
0:00 /usr/libexec/gyfs-mtp-volume-monitor
0:00 /usr/libexec/gyfs-gphoto2-volume-monitor
0:02 /usr/libexec/gyfs-afc-volume-monitor
0:00 /usr/libexec/gyfs-afc-volume-monitor
0:00 /usr/libexec/gyfs-afc-volume-monitor
0:00 /usr/libexec/gyfs-gphoto2-volume-monitor
0:00 /usr/libexec/gyfs-afc-volume-monitor
0:00 /usr/libexec/gyfs-afc-volume-monitor
0:00 /usr/libexec/gyfs-afc-volume-monitor
0:00 /usr/libexec/gyfs-gphoto2-volume-monitor
0:00 /usr/libexec/gyfs-afc-volume-monitor
  auan
                                                                                                                                                                                                      Ssl 08:35
Ss 08:35
                                                                                                                                                                                                      Ss 08:35
Ssl 08:35
Ssl 08:35
Ssl 08:35
  auan
  auan
   auan
 auan
                                                                                                                                                                                                                     08:35
08:35
  auan
                                            980 0.0 0.1 8172 4568 ?

993 0.0 0.2 312424 11220 ?

1005 0.0 1.1 455400 46176 ?

1010 0.0 0.1 233176 6516 ?

1010 0.0 0.1 235412 7020 ?
                                                                                                                                                                                                                       08:35
08:35
  auan
                                                                                                                                                                                                                       08:35
08:35
 auan
                                                                   0.0 0.2 311888 8068 ?
0.0 0.1 233232 6488 ?
```

0:00 /usr/libexec/gnome-shell-calendar-server 0:00 /usr/libexec/evolution-source-registry

0:00 /usr/libexec/dconf-service 0:00 /usr/libexec/evolution-calendar-factory 0:00 /usr/libexec/evolution-addressbook-factory

0:00 /usr/bin/gjs /usr/share/gnome-shell/org.gnome.Shell.Notification

08:35 08:35

S1 08:35 Ssl 08:35

Ss1

Ssl 08:35

auan

auan

auan

1038

1047 0.0 0.5 581376 20616 ? 1054 0.0 0.6 680408 26540 ?

1061 0.0 0.1 156012 5636 ? 1066 0.0 0.8 727100 35088 ? 1077 0.0 0.7 677088 29312 ?

0.7 2527100 30268

• 4. Exiba uma lista hierárquica de processos em um formato de árvore (todos do sistema);

```
root@debian:/# pstree
systemd ModemManager-
                               ---2*[{ModemManager}]
            —NetworkManager——2*[{NetworkManager}]
—accounts-daemon——2*[{accounts-daemon}]
—avahi-daemon——avahi-daemon
            -colord---2*[{colord}]
            -cron
            -dbus-daemon
            -fwupd---4*[{fwupd}]
                                                gdm-wayland-ses—gnome-session-b—3*[{gnome-session-b}]

2*[{gdm-wayland-ses}]
            -gdm3<del>----</del>gdm-session-wor<sup>.</sup>
                                              ^{igspace-}2*[{gdm-session-wor}]
                     └-2*[{gdm3}]
            -gnome-keyring-d--3*[{gnome-keyring-d}]
-packagekitd--2*[{packagekitd}]
-polkitd--2*[{polkitd}]
-rsyslogd--3*[{rsyslogd}]
            -rtkit-daemon---2*[{rtkit-daemon}]
-sshd---sshd---sshd---su---bash---pstree
            -switcheroo-cont——2*[{switcheroo-cont}]
            -systemd<del>---</del>(sd-pam)
                         -at-spi2-registr---2*[{at-spi2-registr}]
                          -dbus-daemon
                          -dconf-service---2*[{dconf-service}]
                          -evolution-addre--5*[{evolution-addre}]
-evolution-calen--8*[{evolution-calen}]
                                                    -3*[{evolution-sourc}]
                          -evolution-sourc
                          -gjs---4*[{gjs}]
                           -gnome-calendar---5*[{gnome-calendar}]
                          -gnome-session-b—at-spi-bus-laun—dbus-daemon
-3*[{at-spi-bus-laun}]
                                                    -evolution-alarm---5*[{evolution-alarm}]
                                                    -gnome-software----4*[{gnome-software}]
                                                    -gsd-disk-utilit---2*[{gsd-disk-utilit}]
-3*[{gnome-session-b}]
                           -gnome-session-c-
                                                   --{gnome-session-c}
                                               -Xwayland---4*[{Xwayland}]
                           gnome-shell-
                                             -ibus-daemon-ibus-dconf--3*[{ibus-dconf}]
-ibus-engine-sim--2*[{ibus-engine-sim}]
-ibus-extension---3*[{ibus-extension-}]
-2*[{ibus-daemon}]
                                            └10*[{gnome-shell}]
                           -gnome-shell-cal---5*[{gnome-shell-cal}]
```

• 5. Exiba uma lista hierárquica de processos em um formato de árvore do seu usuário;

```
root@debian:/# pstree kauan
gdm-wayland-ses=gnome-session-b=3*[{gnome-session-b}]
                  -2*[{gdm-wayland-ses}]
gnome-keyring-d---3*[{gnome-keyring-d}]
sshd---bash---su---bash---pstree
systemd_{T}(sd-pam)
          -at-spi2-registr---2*[{at-spi2-registr}]
         -dbus-daemon
         -dconf-service---2*[{dconf-service}]
         -evolution-addre--5*[{evolution-addre}]
-evolution-calen--8*[{evolution-calen}]
          -evolution-sourc---3*[{evolution-sourc}]
          -gjs----4*[{gjs}]
          -gnome-calendar----5*[{gnome-calendar}]
          -gnome-session-b---at-spi-bus-laun---dbus-daemon
-3*[{at-spi-bus-laun}]
                             -evolution-alarm---5*[{evolution-alarm}]
                             -gnome-software---4*[{gnome-software}]
                             -gsd-disk-utilit---2*[{gsd-disk-utilit}]
                             -3*[{gnome-session-b}]
          -gnome-session-c---{gnome-session-c}
          gnome-shell——Xwayland——4*[{Xwayland}]
                        _2*[{ibus-daemon}]
                       └─10*[{gnome-shell}]
          gnome-shell-cal--5*[{gnome-shell-cal}]
          -goa-daemon----3*[{goa-daemon}]
         -goa-identity-se-2*[{goa-identity-se}]
-gsd-a11y-settin--3*[{gsd-a11y-settin}]
          -gsd-color---3*[{gsd-color}]
          -gsd-datetime---3*[{gsd-datetime}]
          -gsd-housekeepin---3*[{gsd-housekeepin}]
          -gsd-keyboard---3*[{gsd-keyboard}]
-gsd-media-keys---3*[{gsd-media-keys}]
          -gsd-power---3*[{gsd-power}]
          -gsd-print-notif---2*[{gsd-print-notif}]
          gsd-printer—2*[{gsd-printer}]
          -gsd-rfkill---2*[{gsd-rfkill}]
```

• 6. Exiba o status dos processos continuamente atualizados, com consumo da CPU, memória;

top - 15:06:28 up 6:31, 2 users, load average: 0,00, 0,00, 0,00 Tarefas: 154 total, 1 em exec., 153 dormindo, 0 parado, 0 zumbi %Cpu(s): 0,0 us, 0,3 sy, 0,0 ni, 99,7 id, 0,0 wa, 0,0 hi, 0,0 si, 0,0 st MB mem : 3931,6 total, 1403,1 livre, 793,0 usados, 1735,4 buff/cache MB swap: 975,0 total, 975,0 livre, 0,0 usados, 2845,1 mem dispon.

PID	USUARIO	PR	NI	VIRT	RES	SHR	S	%CPU	%MEM	TEMPO+ COMANDO
30976	root	20	0	0	0	0	Ι	0,3	0,0	0:00.25 kworker/0:2-ata_sff
1	root	20	0	99680	10732	7872	S	0,0	0,3	0:04.61 systemd
2	root	20	0	0	0	0	S	0,0	0,0	0:00.01 kthreadd
3	root	0	-20	0	0	0	Ι	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
6	root	0	-20	0	0	0	I	0,0	0,0	0:00.00 kworker/0:0H-events_highpri
8	root	0	-20	0	0	0	Ι	0,0	0,0	0:00.00 mm_percpu_wq
9	root	20	0	0	0	0	S	0,0	0,0	0:00.00 rcu_tasks_rude_
10	root	20	0	0	0	0	S	0,0	0,0	0:00.00 rcu_tasks_trace
11	root	20	0	0	0	0	S	0,0	0,0	0:02.08 ksoftirqd/0
12	root	20	0	0	0	0	Ι	0,0	0,0	0:00.65 rcu_sched
13	root	rt	0	0	0	0	S	0,0	0,0	0:00.49 migration/0
15	root	20	0	0	0	0	S	0,0	0,0	0:00.00 cpuhp/0
17	root	20	0	0	0	0	S	0,0	0,0	0:00.00 kdevtmpfs
18	root	0	-20	0	0	0	Ι	0,0	0,0	0:00.00 netns
19	root	20	0	0	0	0	S	0,0	0,0	0:00.00 kauditd
20	root	20	0	0	0	0	S	0,0	0,0	0:00.01 khungtaskd
21	root	20	0	0	0	0	S	0,0	0,0	0:00.00 oom_reaper
22	root	0	-20	0	0	0	Ι	0,0	0,0	0:00.00 writeback
23	root	20	0	0	0	0	S	0,0	0,0	0:01.57 kcompactd0
24	root	25	5	0	0	0	S	0,0	0,0	0:00.00 ksmd
25	root	39	19	0	0	0	S	0,0	0,0	0:01.38 khugepaged
43	root	0	-20	0	0	0	Ι	0,0	0,0	0:00.00 kintegrityd
44	root	0	-20	0	0	0	Ι	0,0	0,0	0:00.00 kblockd
45	root	0	-20	0	0	0	Ι	0,0	0,0	0:00.00 blkcg_punt_bio
46	root	0	-20	0	0	0	Ι	0,0	0,0	0:00.00 edac-poller
47	root	0	-20	0	0	0	Ι	0,0	0,0	0:00.00 devfreq_wq
48	root	0	-20	0	0	0	Ι	0,0	0,0	0:04.60 kworker/0:1H-kblockd
51	root	20	0	0	0	0	S	0,0	0,0	0:00.00 kswapd0
52	root	0	-20	0	0	0	Ι	0,0	0,0	0:00.00 kthrotld
53	root		-20	0	0	0		0,0	0,0	0:00.00 acpi_thermal_pm
54	root	0	-20	0	0	0		0,0	0,0	0:00.00 ipv6_addrconf
64	root	0	-20	0	0	0		0,0	0,0	0:00.00 kstrp
	root		-20	0	0	0		0,0	0,0	0:00.00 zswap-shrink
	root	0	-20	0	0	0		0,0	0,0	0:00.00 kworker/u3:0
104	root	0	-20	0	0	0	Ι	0,0	0,0	0:00.00 ata_sff

• 7. Exiba o status dos processos continuamente atualizados, com consumo da CPU, memória atualizados a cada 1s;



top - 15:07:47 up 6:32, 2 users, load average: 0,00, 0,00, 0,00
Tarefas: 154 total, 1 em exec., 153 dormindo, 0 parado, 0 zumbi %Cpu(s): 0,0 us, 1,0 sy, 0,0 ni, 99,0 id, 0,0 wa, 0,0 hi, 0,0 si, 0,0 st MB mem : 3931,6 total, 1403,1 livre, 793,0 usados, 1735,4 buff/cache MB swap: 975,0 total, 975,0 livre, 0,0 usados, 2845,1 mem dispon.

MB swap	975,	0 tot	al,	975,0	livre,	0,0	usado	15,	2845,1 mem	dispon.
PID	USUARIO	PR	NI	VIRT	RES	SHR S	%CPU	%MEM	TEMPO+	COMANDO
1	root	20	0	99680	10732	7872 S	0,0	0,3	0:04.61	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
6	root	0	-20	0	0	0 I	0,0	0,0	0:00.00	kworker/0:0H-events_highpri
8	root	0	-20	0	0	0 I	0,0	0,0	0:00.00	mm_percpu_wq
9	root	20	0	0	0	0 S	0,0	0,0	0:00.00	rcu_tasks_rude_
10	root	20	0	0	0	0 S	0,0	0,0	0:00.00	rcu_tasks_trace
11	root	20	0	0	0	0 5	0,0	0,0	0:02.09	ksoftirqd/0
12	root	20	0	0	0	0 I	0,0	0,0	0:00.66	rcu_sched
13	root	rt	0	0	0	0 S	0,0	0,0	0:00.49	migration/0
15	root	20	0	0	0	0 S	0,0	0,0	0:00.00	cpuhp/0
17	root	20	0	0	0	0 S	0,0	0,0	0:00.00	kdevtmpfs
18	root	0	-20	0	0	0 I	0,0	0,0	0:00.00	netns
19	root	20	0	0	0	0 S	0,0	0,0	0:00.00	kauditd
20	root	20	0	0	0	0 S	0,0	0,0	0:00.01	khungtaskd
21	root	20	0	0	0	0 S	0,0	0,0	0:00.00	oom_reaper
22	root	0	-20	0	0	0 I	0,0	0,0	0:00.00	writeback
23	root	20	0	0	0	0 S	0,0	0,0	0:01.58	kcompactd0
24	root	25	5	0	0	0 S	0,0	0,0	0:00.00	ksmd
25	root	39	19	0	0	0 S	0,0	0,0	0:01.38	khugepaged
43	root	0	-20	0	0	0 I	0,0	0,0	0:00.00	kintegrityd
44	root	0	-20	0	0	0 I	0,0	0,0	0:00.00	kblockd
45	root	0	-20	0	0	0 I	0,0	0,0	0:00.00	blkcg_punt_bio
46	root	0	-20	0	0	0 I	0,0	0,0	0:00.00	edac-poller
47	root	0	-20	0	0	0 I	0,0	0,0	0:00.00	devfreq_wq
48	root	0	-20	0	0	0 I	0,0	0,0	0:04.60	kworker/0:1H-kblockd
51	root	20	0	0	0	0 S	0,0	0,0	0:00.00	kswapd0
52	root	0	-20	0	0	0 I	0,0	0,0	0:00.00	kthrotld
53	root	0	-20	0	0	0 I	0,0	0,0	0:00.00	acpi_thermal_pm
54	root	0	-20	0	0	0 I	0,0	0,0	0:00.00	ipv6_addrconf
64	root	0	-20	0	0	0 I	0,0	0,0	0:00.00	kstrp
67	root	0	-20	0	0	0 I	0,0	0,0	0:00.00	zswap-shrink
68	root	0	-20	0	0	0 I	0,0	0,0	0:00.00	kworker/u3:0
	root	0	-20	0	0	0 I	0,0	0,0	0:00.00	ata_sff
105	root	20	0	0	0	0 <u>S</u>	0,0	0,0	0:00.02	scsi_eh_0

• 8. Exiba o status dos processos continuamente atualizados e interativamente veja todas as CPUs do sistema;

```
top - 15:10:28 up 6:35, 2 users, load average: 0,00, 0,00,
Tarefas: 154 total, 1 em exec., 153 dormindo, 0 parado,
                                    load average: 0,00, 0,00, 0,00
                                                              0 zumbi
%Cpu(s): 0,0 us, 1,0 sy, 0,0 ni, 99,0 id, 0,0 wa, 0,0 hi, 0,0 si, 0,0 st

MB mem : 3931,6 total, 1403,0 livre, 793,1 usados, 1735,5 buff/cache
MB swap:
                           975,0 livre,
          975,0 total,
                                             0,0 usados,
                                                            2845,0 mem dispon.
   PID USUARIO PR NI
                                          SHR S %CPU %MEM
                           VIRT
                                   RES
                                                                TEMPO+ COMANDO
                   0 -20
                                             0 I
                                                   0,0
                                                         0,0
                                                               0:00.00 rcu_par_gp
                                                               0:00.00 kworker/0:0H-events_highpri
                   0 -20
                                             0 I
                                                   0,0
                                                         0,0
     6 root
                               0
                                      0
     8 root
                               0
                                      0
                                             0 I
                                                   0,0
                                                         0,0
                                                               0:00.00 mm_percpu_wq
                     0
0
     9 root
                  20
                               0
                                      0
                                             0 S
                                                   0,0
                                                         0,0
                                                               0:00.00 rcu_tasks_rude_
                                                         0,0
                                                               0:00.00 rcu_tasks_trace
                                             0 5
    10 root
                  20
                               a
                                      a
                                                   0,0
                  20 0
                                                               0:02.09 ksoftirqd/0
    11 root
                                                   0,0
                                                         0,0
                     0
0
                                                               0:00.67 rcu_sched
                  20
                              0
                                      0
                                             0 I
                                                   0,0
                                                         0,0
    12 root
     13 root
                  rt
                               0
                                      0
                                             0 S
                                                   0,0
                                                         0,0
                                                               0:00.49 migration/0
                                                   0,0
    15 root
                                     0
                                             0 S
                                                         0,0
                                                               0:00.00 cpuhp/0
                              0
                                     0
    17 root
                                             0 S
                                                   0,0
                                                         0,0
                                                               0:00.00 kdevtmpfs
                                             0 I
                                                               0:00.00 netns
     18 root
                  0 -20
                              0
                                     0
                                                   0,0
                                                         0,0
    19 root
                                             05
                                                         0,0
                                                               0:00.00 kauditd
                              0
                                     0
                                                   0,0
                  20
     20 root
                                      0
                                             0 S
                                                   0,0
                                                         0,0
                                                               0:00.01 khungtaskd
     21 root
                  20 0
0 -20
                              0
                                     0
                                             0 S
                                                               0:00.00 oom_reaper
                                                   0,0
                                                         0,0
     22 root
                              0
                                     0
                                             0 I
                                                   0,0
                                                         0,0
                                                               0:00.00 writeback
     23 root
                             0
                                             0 S
                                                   0,0
                                                         0,0
                                                               0:01.59 kcompactd0
                 25 5
    24 root
                                     0
                                             0 5
                                                   0,0
                                                         0,0
                                                               0:00.00 ksmd
     25 root
                                     0
                                             0 S
                                                               0:01.38 khugepaged
                                                   0,0
                                                         0,0
                                                         0,0
    43 root
                                                              0:00.00 kintegrityd
                 0 -20
                                             0 I
                              0
                                     0
                                                   0,0
     44 root
                 0 -20
                              0
                                     0
                                             0 I
                                                   0,0
                                                         0,0 0:00.00 kblockd
                                                         0,0
0,0
    45 root
                  0 -20
                              0
                                     0
                                             0 I
                                                   0,0
                                                               0:00.00 blkcg punt bio
                  0 -20
                                             0 T
                                                               0:00.00 edac-poller
    46 root
                              0
                                     0
                                                   0,0
                                                               0:00.00 devfreq_wq
    47 root
                                             0 I
                                                   0,0
                                                         0,0
    48 root
                                     0
                                                               0:04.60 kworker/0:1H-kblockd
                                             0 I
                                                   0,0
                                                         0,0
                                                               0:00.00 kswapd0
     51 root
                                             0 S
                                                   0,0
                                                         0,0
                                                         0,0
    52 root
                 0 -20
                              0
                                     0
                                             0 I
                                                   0,0
                                                               0:00.00 kthrotld
                                     0
    53 root
                  0 -20
                              0
                                             0 T
                                                   0,0
                                                         0,0
                                                               0:00.00 acpi_thermal_pm
    54 root
                   0 -20
                               0
                                      0
                                             0 I
                                                   0,0
                                                         0,0
                                                               0:00.00 ipv6_addrconf
                                                               0:00.00 kstrp
                   0 -20
    64 root
                               a
                                             0 T
                                      0
                                                   0,0
                                                         0,0
```

0

0

0

0

0

0

0

0

0

0 -20

20 0

-20

20 0

0

67 root

68 root

104 root

105 root

106 root

107 root

108 root

top - 15:11:00 up 6:36, 2 users, load average: 0,00, 0,00, 0,00
Tarefas: 154 total, 1 em exec., 153 dormindo, 0 parado, 0 zumbi %Cpu0 : 0,0 us, 1,0 sy, 0,0 ni, 99,0 id, 0,0 wa, 0,0 hi, 0,0 si, 0,0 st MB mem : 3931,6 total, 1403,0 livre, 793,1 usados, 1735,5 buff/cache MB swap: 975,0 total, 975,0 livre, 0,0 usados, 2845,0 mem dispon.

0 I

0 I

0 I

0 S

0 I

0 S

0,0

0,0

0,0

0,0

0,0

0,0

0.0

0,0

0,0

0,0

0,0

0,0

0,0

0.0

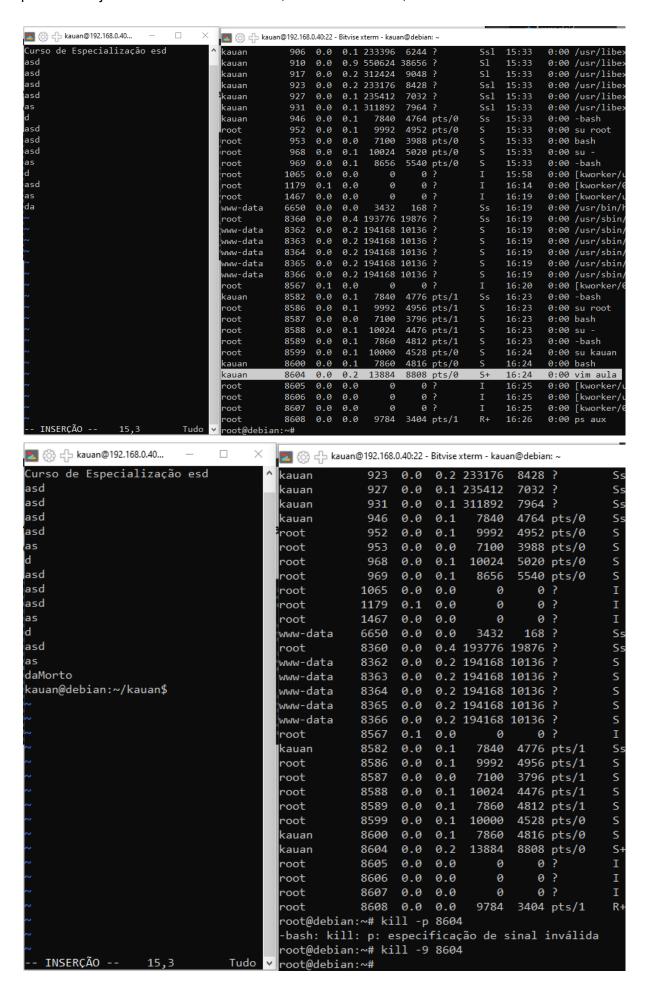
0:00.00 zswap-shrink 0:00.00 kworker/u3:0

0:00.00 ata_sff

0:00.02 scsi_eh_0

0:00.00 scsi_tmf_0

0:00.01 scsi_eh_1 0:00.00 scsi tmf 1 • 9. Crie um processo, em um terminal e em outro envie uma mensagem para que o processo seja terminado imediatamente, de forma drástica;



• 10. Crie três processos em foreground em seu terminal, coloque todos em background, verifique o ID de todos e coloque o terceiro em foreground novamente.

```
root@debian:/home/kauan/kauan# jobs -l
[1] 8665 Parado vim arquivo
[2]- 8666 Parado vim arquivo2
[3]+ 8671 Parado vim arquivo3
root@debian:/home/kauan/kauan# fg 3
```

• 11. Atribua prioridade máxima para todos os processos do seu usuário.

```
root@debian:/home# renice -20 -u kauan
1000 (user ID) com prioridade antiga 0, prioridade nova -20
root@debian:/home#
```

• 12. Crie um processo e mude a prioridade dele para -1 em tempo de execução. Além disso, verifique e comprove se a prioridade realmente foi alterada.

```
1000
                               60 - 20 - 58349
                                                               00:00:00 gvfs-goa-volume
     1000
              910
                               60 - 20 - 137656 -
                      835
                           0
                                                               00:00:00 goa-daemon
0 S
    1000
                      835 0
                              60 - 20 - 78106 -
              917
                                                               00:00:00 goa-identity-se
0
    1000
                      835 0
                              60 - 20 - 58294
              923
                                                               00:00:00 gvfs-mtp-volume
0
     1000
              927
                      835
                           0
                              60 - 20 - 58853
                                                               00:00:00 gvfs-gphoto2-vo
0
     1000
              931
                      835
                           0
                               60 -20
                                      - 77973
                                                               00:00:00 gvfs-afc-volume
0
     1000
             8620
                      866
                           0
                               60 - 20
                                         1960
                                                     pts/0
                                                               00:00:00 bash
4
                              60 -20
    1000
             8677
                     8676
                                         1965 -
                                                     pts/0
                                                               00:00:00 bash
4
    1000
             8750
                     8749
                               79
                                         2043 -
                                                               00:00:00 bash
                           0
                                                     pts/0
0
                     866 0 60 20 -
8750 0 80 0
    1000
             8766
                                         1960 -
                                                     pts/1
                                                               00:00:00 bash
0 S 1000
            8793
                                         3494 -
                                                     pts/0
                                                              00:00:00 vim
root@debian:~# renice -1 -p 8793
8793 (process ID) com prioridade antiga 0, prioridade nova -1
root@debian:~# ps -lu kauan
                     PPID C PRI NI ADDR SZ WCHAN TTY
     UID
              PID
                                                                   TIME CMD
4 S
                              60 -20 - 3867 -
60 -20 - 25369 -
                                                               00:00:00 systemd
     1000
              835
     1000
              836
                      835
                           0
                                                               00:00:00 (sd-pam)
0
     1000
              855
                      835
                           0
                               60 -20 - 22615 -
                                                               00:00:00 pipewire
0
                              60 -20 - 92468 -
     1000
              856
                      835
                           0
                                                               00:00:00 pulseaudio
0
     1000
              858
                      835
                           0
                              60
                                  - - 164338 -
                                                              00:00:00 tracker-miner-f
                              60 - 20 - 3680 -
                                                              00:00:05 sshd
    1000
              866
                      683
                           0
0
                              60 - 20 - 2043 -
    1000
              867
                      835 0
                                                               00:00:00 dbus-daemon
0
    1000
                              60 -20 - 21325 -
              869
                                                              00:00:00 pipewire-media-
0
                                                              00:00:00 gvfsd
    1000
              888
                      835 0
                              60 -20 - 59310 -
0
    1000
              893
                      835 0
                              60 -20 - 94981 -
                                                               00:00:00 gvfsd-fuse
0
    1000
              901
                      835 0
                              60 -20 - 87407 -
                                                               00:00:00 gvfs-udisks2-vo
0
     1000
              906
                      835 0
                              60 -20 - 58349 -
                                                               00:00:00 gvfs-goa-volume
0
     1000
              910
                      835
                           0
                              60 -20 - 137656 -
                                                               00:00:00 goa-daemon
0
     1000
                               60 -20 - 78106 -
              917
                                                               00:00:00 goa-identity-se
0
     1000
              923
                      835
                               60 -20
                                      - 58294
                                                               00:00:00 gvfs-mtp-volume
0
     1000
              927
                      835
                               60 -20 -
                                        58853
                                                               00:00:00 gvfs-gphoto2-vo
0
     1000
              931
                               60 - 20
                                      - 77973 -
                                                               00:00:00 gvfs-afc-volume
                           0
0
     1000
             8620
                      866
                           0
                               60 - 20
                                         1960 -
                                                     pts/0
                                                               00:00:00 bash
 S
    1000
             8677
                     8676
                           0
                               60 -20 -
                                         1965 -
                                                     pts/0
                                                               00:00:00 bash
    1000
             8750
                     8749
                           0
                               79
                                         2043 -
                                                     pts/0
                                                               00:00:00 bash
                              60 -20
79 -1 -
 5 1000
             8766
                      866
                           0
                                         1960 -
                                                     pts/1
                                                               00:00:00 bash
             8793
                                         3494 -
0 S 1000
                     8750 0
                                                     pts/0
                                                               00:00:00 vim
root@debian:~#
```