Exercício de Manipulação de Processos:

1. No terminal, liste os processos em execução.

2. No terminal, liste os processos em execução com detalhamento.

```
23 de fev 14:47
                                                                                                              PDITA681@PDITA3409l: ~
PDITA681@PDITA3409l:~$ ps
  PID TTY
8341 pts/0
12047 pts/0
                          TIME CMD
                      00:00:00 bash
                      00:00:00 ps
PDITA681@PDITA34091:-$ ps -aux
USER PID %CPU %MEM
                                               RSS TTY
                                                                STAT START
                                                                                 TIME COMMAND
                   1 0.0
2 0.0
                             0.1 170960 14544 ?
                                                                                        /sbin/init splash
                                                                       13:05
                                                                                 0:01
root
                             0.0
                                         0
                                                                       13:05
                                                                                 0:00 [kthreadd]
                   3 0.0
                             0.0
                                                                       13:05
root
                                                  0 ?
                                                                                 0:00
                                                                                        [rcu_gp]
                   4 0.0
                                                                       13:05
                                                                                        [rcu_par_gp]
[slub_flushwq]
[netns]
                             0.0
                                                                                 0:00
root
                      0.0
                              0.0
                                                                       13:05
                                                                                 0:00
root
                                                 0 ?
0 ?
0 ?
0 ?
                                                                       13:05
                                                                                 0:00
                                                                       13:05
                                                                                 0:00
                                                                                        [kworker/0:0H-events_highpri]
                                                                                 0:00 [mm_percpu_wq]
0:00 [rcu_tasks_kthread]
0:00 [rcu_tasks_rude_kthread]
0:00 [rcu_tasks_trace_kthread]
0:00 [ksoftirqd/0]
                       0.0
                                                                       13:05
root
                       0.0
                              0.0
                                                                       13:05
                  13
                       0.0
                                         0
                                                                       13:05
root
                              0.0
                       0.0
                              0.0
                                                                       13:05
root
                                                 0 ?
0 ?
0 ?
0 ?
0 ?
                              0.0
                                                                       13:05
root
                                                                       13:05
                                                                                 0:02
root
                                                                                        [rcu_preempt]
                                                                                        [migration/0]
[idle_inject/0]
                                                                                 0:00
root
                       0.0
                                         0
                                                                       13:05
                                                                                 0:00
                       0.0
root
                  19
                              0.0
                                                                       13:05
                                                                                 0:00
                                                                                        [cpuhp/0]
                                                 0 ?
0 ?
0 ?
                                                                                 0:00 [cpuhp/1]
0:00 [idle_inject/1]
0:00 [migration/1]
                  20
                       0.0
                                                                       13:05
root
                              0.0
                  21
22
                       0.0
                              0.0
                                                                       13:05
root
                              0.0
                                                                       13:05
root
                                                 0 ?
0 ?
0 ?
0 ?
                  23
25
26
                                                                       13:05
                                                                                 0:00
                                                                                        [ksoftirqd/1]
                                                                       13:05
                                                                                 0:00
                                                                                        [kworker/1:0H-events_highpri]
                                                                                 0:00 [cpuhp/2]
0:00 [idle_inject/2]
root
                       0.0
                              0.0
                                         0
0
                                                                       13:05
root
                       0.0
                              0.0
                                                                       13:05
                                                                                        [migration/2]
[ksoftirqd/2]
[kworker/2:0H-events_highpri]
                  28
                       0.0
                              0.0
                                                                       13:05
root
                                                                                 0:00
                                                                      13:05
13:05
                  29
31
                       0.0
                              0.0
                                                                                 0:00
root
                       0.0
                              0.0
                                                                                 0:00
root
                                                 0 ?
0 ?
0 ?
                                                                                        [cpuhp/3]
[idle_inject/3]
                                                                       13:05
                                                                                 0:00
                                                                       13:05
                                                                                 0:00
                                                                                 0:00 [migration/3]
0:00 [ksoftirqd/3]
                  34
root
                       0.0
                              0.0
                                                                       13:05
root
                  35
37
                       0.0
                              0.0
                                         0
                                                  0 ?
                                                                       13:05
                       0.0
                              0.0
                                                                       13:05
                                                                                        [kworker/3:0H-events_highpri]
root
                                                                                 0:00
                  38
                       0.0
                                                                       13:05
                                                                                        [kdevtmpfs]
                              0.0
                                                                                 0:00
root
                  39
                       0.0
                              0.0
                                                                       13:05
                                                                                 0:00
                                                                                        [inet_frag_wq]
root
                                                                       13:05
                                                                                 0:00
                                                                                        [kauditd]
                       0.0
                              0.0
                                                                       13:05
                                                                                 0:00
                                                                                        [khungtaskd]
root
root
                  44
                       0.0
                              0.0
                                         0
                                                                       13:05
                                                                                 0:00
                                                                                        [oom_reaper]
                                         0
                                                  0 ?
root
                       0.0
                             0.0
                                                                       13:05
                                                                                 0:00 [writeback]
                  46
                      0.0
                             0.0
                                         0
                                                                       13:05
                                                                                 0:00
                                                                                        [kcompactd0]
root
                                                                                        [ksmd]
[khugepaged]
                                                                SN
                  47
                       0.0
                              0.0
                                                                       13:05
                                                                                 0:00
root
                  48
                       0.0
                              0.0
                                                                SN
                                                                       13:05
                                                                                 0:00
root
                                                                                        [kintegrityd]
                  49
                       0.0
                                                                       13:05
                                                                                 0:00
root
```

3. No terminal, liste os processos em execução com detalhamento e filtre pelo nome ou PID.

```
DITA3409l:~$ ps aux | grep firefox
                                                         12524 24.3 6.1 3495312 485524 ?
12768 0.0 0.5 217592 46976 ?
  PDTTA681
                                                                                                                                                                                                                                                                                             14:55
                                                                                                                                                                                                                                                                                                                                       0:10 /snap/
                                                                                                                                                                                                                                                                                                                                                                                                                                        /5783/usr/lib/
      PDITA681 12768 0.0 0.5 217592 46976 ? Sl 14:55 0:00 /snap/firefox/5783/usr/lib/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox
  PDITA681
                                                                               x/5783/usr/lib/1
                                                                                                                                                                                            x/browser 1 socket
             /snap/f
   PDITA681 12806 0.6 1.2 2446016 98388 ? Sl 14:55 0:00 /snap/firefox/5783/usr/lib/firefox/firefox -content - prefMapSize 261850 -jsInitHandle 2 -jsInitLen 253512 -parefMapSize 261850 -jsInitHandle 2 -jsInitHandle 
  25c56c} -parentPid 12524 -crashReporter 6 -greomni /snap/firefox/5783/usr/lib/firefox/omni.ja -appomni /snap/f
 r/lib/firefox/browser 2 tab
PDITA681 12811 0.1 0.6 349976 53504 ? Sl 14:55 0:00 /snap/firefox/5783/usr/lib/firefox/firefox -conten
-prefMapHandle 1 -prefMapSize 261850 -sandboxReporter 2 -chrootClient 3 -ipcHandle 4 -initialChannelId {1d408dc5-2ca
  r /snap/firefox/5783/usr/lib/firefox/browser 3 rdd
PDITA681 12840 1.8 1.7 2494604 135324 ? Sl 14:55 0:00 /snap/firefox/5783/usr/lib/firefox/firefox -contental -prefMapSize 261850 -jsInitHandle 2 -jsInitLen 253512 -parentBuildID 20250217035122 -sandboxReporter 3 -chrootClien
   39a7be} -parentPid 12524 -crashReporter 6 -greomni /snap/
                                                                                                                                                                                                                                                                                                                                        ox/5783/usr/lib/fir
                                                                                                                                                                                                                                                                                                                                                                                                                                                         ox/omni.ja -appomni /snap/1
39a/be} -parentPid 12524 -crashReporter 6 -greemni /snap/firefox/5/83/usr/lib/firefox/omni.ja -appomni /snap/firefox/r/lib/firefox/browser 4 tab
PDITA681 13023 0.0 0.6 216976 47744 ? Sl 14:55 0:00 /snap/firefox/5783/usr/lib/firefox/firefox -content
0 -prefsLen 43729 -prefMapHandle 1 -prefMapSize 261850 -sandboxReporter 2 -chrootClient 3 -ipcHandle 4 -initialChannehReporter 5 -appDir /snap/firefox/5783/usr/lib/firefox/browser 5 utility
PDITA681 13032 8.5 2.8 2605340 226164 ? Sl 14:55 0:03 /snap/firefox/5783/usr/lib/firefox/firefox -content
1 -prefMapSize 261850 -jsInitHandle 2 -jsInitLen 253512 -parentBuildID 20250217035122 -sandboxReporter 3 -chrootClien
1 -prefMapSize 261850 -jsInitHandle 2 -jsInitLen 253512 -parentBuildID 20250217035122 -sandboxReporter 3 -chrootClien
1 -prefMapSize 261850 -jsInitHandle 2 -jsInitLen 253512 -parentBuildID 20250217035122 -sandboxReporter 3 -chrootClien
  Oa8aad} -parentPid 12524 -crashReporter 6 -greomni /snap/
                                                                                                                                                                                                                                                                                                                                        ox/5783/usr/lib/firefox/omni.ja -appomni /snap/f
 PDITA681 13051 1.0 1.4 2442448 113312 ? Sl 14:55 0:00 /snap/firefox/5783/usr/lib/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firefox/firef
 PDITA681 13070 0.6 1.1 2423892 90352 ? Sl 14:55 0:00 /snap/firefox/5783/usr/lib/firefox/firefox/snap/firefox/ -conten 1 -prefMapSize 261850 -jsInitHandle 2 -jsInitLen 253512 -parentBuildID 20250217035122 -sandboxReporter 3 -chrootClien 57e09f} -parentPid 12524 -crashReporter 6 -greomni /snap/firefox/5783/usr/lib/firefox/omni.ja -appomni /snap/firefox/
           /lib/<mark>firefox/</mark>browser 8 tab
DITA681 13134 0.2 0.9 2406568 77228 ? Sl 14:55 0:00 /snap/<mark>firefox</mark>/5783/usr/lib/<mark>firefox/firefo</mark>x -conten
-prefMapSize 261850 -jsInitHandle 2 -jsInitLen 253512 -parentBuildID 20250217035122 -sandboxReporter 3 -chrootClien
   r/lib/
   PDITA681
                                            -parentPid 12524 -crashReporter 6 -greomni /snap/fir
                                                                                                                                                                                                                                                                                                                                       fox/5783/usr/lib/firefox/omni.ja -appomni /snap/1
   r/lib/
                                                                      /browser 11 tab
   PDITA681 13270 0.0 0.0 6544 2304 pts/0
                                                                                                                                                                                                                                                                                       14:56
                                                                                                                                                                                                                                                                                                                                      0:00 grep --color=auto firefo
  PDITA681@PDITA3409l:~$ ps -p 12524
PID TTY TIME CMD
                                                                                          00:00:<u>1</u>2 firefox
             12524 ?
    PDITA681@PDITA3409l:~$
```

4. No terminal, execute o gedit em segundo plano.

```
PDITA681@PDITA34091:-$ gedit &
[1] 13795
PDITA681@PDITA34091:-$ Gtk-Message: 15:01:13.038: Not loading module "atk-bridge": The functionality is provided by GTK m
(gedit:13795): Gtk-Marning **: 15:01:13.112: GTK+ module /snap/gedit/684/gnome-platform/usr/lib/gtk-2.0/modules/libcanber
GTK+ 2.x symbols detected. Using GTK+ 2.x and GTK+ 3 in the same process is not supported.
Gtk-Message: 15:01:13.112: Failed to load module "canberra-gtk-module"
(gedit:13795): Gtk-Marning **: 15:01:13.113: GTK+ module /snap/gedit/684/gnome-platform/usr/lib/gtk-2.0/modules/libcanber
GTK+ 2.x symbols detected. Using GTK+ 2.x and GTK+ 3 in the same process is not supported.
Gtk-Message: 15:01:13.113: Failed to load module "canberra-gtk-module"
(gedit:13795): GLib-GIO-MARNING **: 15:01:13.163: Error creating IO channel for /proc/self/mountinfo: Permission denied (
PDITA681@PDITA34091:-$
```

5. No terminal, execute o gedit em segundo plano, busque pelo PID e finalize-o.

```
PDITA681@PDITA34091:-$ gedit &
[1] 14205
PDITA681@PDITA34091:-$ (Stk-Message: 15:07:57.7790: GTK+ module /snap/gedit/684/gnome-platform/usr/lib/gtk-2.0/modules/libcanberra-gtk-module.so cannot be loaded.
GTK+ 2.x symbols detected. Using GTK+ 2.x and GTK+ 3 in the same process is not supported.
GTK+ 2.x symbols detected. Using GTK+ 2.x and GTK+ 3 in the same process is not supported.
GTK+ 2.x symbols detected. Using GTK+ 2.x and GTK+ module /snap/gedit/684/gnome-platform/usr/lib/gtk-2.0/modules/libcanberra-gtk-module.so cannot be loaded.
GTK+ 2.x symbols detected. Using GTK+ 2.x and GTK+ module /snap/gedit/684/gnome-platform/usr/lib/gtk-2.0/modules/libcanberra-gtk-module.so cannot be loaded.
GTK+ 2.x symbols detected. Using GTK+ 2.x and GTK+ 3 in the same process is not supported.
GTK+ 2.x symbols detected. Using GTK+ 2.x and GTK+ 3 in the same process is not supported.
GTK+ 2.x symbols detected. Using GTK+ 2.x and GTK+ 3 in the same process is not supported.
GTK+ 2.x symbols detected. Using GTK+ 2.x and GTK+ 3 in the same process is not supported.
GTK+ 2.x symbols detected. Using GTK+ 2.x and GTK+ 3 in the same process is not supported.
GTK+ 2.x symbols detected. Using GTK+ 2.x and GTK+ 3 in the same process is not supported.
GTK+ 2.x symbols detected. Using GTK+ 2.x and GTK+ 3 in the same process is not supported.
GTK+ 2.x symbols detected. Using GTK+ 2.x and GTK+ 2.x and GTK+ 2.x symbols detected. Using GTK+ 2.x symbols detected.
GTK+ 2.x symbols detected. Using GTK+ 2.x and GTK+ 2.x and GTK+ 2.x symbols detected.
GTK+ 2.x symbols d
```

6. No terminal, execute o gedit em segundo plano e finalize-o pelo nome.

```
PDITA681@PDITA34091:-$ gedit &
[1] 15943
PDITA681@PDITA34091:-$ Gtk-Message: 15:27:42.434: Not loading module "atk-bridge": The functionality is provided by GTK natively. Please try to not load it.

(gedit:15943): Gtk-MARNING **: 15:27:42.509: GTK+ module /snap/gedit/684/gnome-platform/usr/lib/gtk-2.0/modules/libcanberra-gtk-module.so cannot be loaded.

GTK- 2.x symbols detected. Using GTK- 2.x and GTK- 3 in the same process is not supported.

Gtk- dessage: 15:27:42.509: Failed to load module "canberra-gtk-module"

(gedit:15943): Gtk-MARNING **: 15:27:42.510: GTK+ module /snap/gedit/684/gnome-platform/usr/lib/gtk-2.0/modules/libcanberra-gtk-module.so cannot be loaded.

GTK- 2.x symbols detected. Using GTK- 2.x and GTK- 3 in the same process is not supported.

Gtk- very symbols detected. Using GTK- 2.x and GTK- 3 in the same process is not supported.

Gtk- very symbols detected. Using GTK- 2.x and GTK- 3 in the same process is not supported.

Gtk- very symbols detected. Using GTK- 2.x and GTK- 3 in the same process is not supported.

Gtk- very symbols detected. Using GTK- 2.x and GTK- 3 in the same process is not supported.

Gtk- very symbols detected. Using GTK- 2.x and GTK- 3 in the same process is not supported.

Gtk- very symbols detected. Using GTK- 2.x and GTK- 3 in the same process is not supported.

Gtk- very symbols detected. Using GTK- 2.x and GTK- 3 in the same process is not supported.

Gtk- very symbols detected. Using GTK- 2.x and GTK- 3 in the same process is not supported.

Gtk- very symbols detected. Using GTK- 2.x and GTK- 3 in the same process is not supported.

Gtk- very symbols detected. Using GTK- 2.x and GTK- 3 in the same process is not supported.

Gtk- very symbols detected. Using GTK- 2.x and GTK- 3 in the same process is not supported.

Gtk- very symbols detected. Using GTK- 2.x and GTK- 3 in the same process is not supported.

Gtk- very symbols detected. Using GTK- 2.x and GTK- 3 in the same process is not supported.

Gtk- very symbols detected. Using GTK- 2.x and GTK- 2.x and GTK- 2.
```

7. Use o comando top ou htop para visualizar os processos em execução em tempo real. Detalhe as informações que estão sendo exibidas.

```
| POINTAGE | POINTAGE
```

