

LETS UPGRADE
LINUX ADMINISTRATION ESSENTIALS
ASSIGNMENT DAY 6
07 DECEMBER 2020

QUESTION 1

1. Use ps to search for the “systemd” process by name.

```
(gurus) guru@pyimagesearch-gurus:~$ ps | grep systemd
(gurus) guru@pyimagesearch-gurus:~$ ps aux | grep -i systemd
root      269  0.0  0.1 52212 3496 ?        Ss   03:01   0:00 /lib/systemd/sy
stemd-udevd --daemon
root      741  0.0  0.1 43524 3136 ?        Ss   03:01   0:00 /lib/systemd/sy
stemd-logind
guru     5390  0.0  0.1 15948 2264 pts/0    S+   12:00   0:00 grep --color=au
to -i systemd
(gurus) guru@pyimagesearch-gurus:~$
```

```
(gurus) guru@pyimagesearch-gurus:~$ ps auxf | grep -i systemd
root      269  0.0  0.1 52212 3496 ?        Ss   03:01   0:00 /lib/systemd/systemd-udev
d --daemon
root      741  0.0  0.1 43524 3136 ?        Ss   03:01   0:00 /lib/systemd/systemd-logi
nd
guru     5394  0.0  0.1 15944 2152 pts/0    S+   12:01   0:00          \_ grep
--color=auto -i systemd
```

2. Find out your terminal name. Using your terminal name, use ps to find all processes associated with your terminal.

```
(gurus) guru@pyimagesearch-gurus:~$ ps -T
  PID  SPID  TTY          TIME CMD
 5286  5286  pts/0        00:00:00 bash
 5397  5397  pts/0        00:00:00 ps
(gurus) guru@pyimagesearch-gurus:~$ ps -t pts/0
  PID  TTY          TIME CMD
 5286  pts/0        00:00:00 bash
 5398  pts/0        00:00:00 ps
```

3. Check and note the process id of your shell (from the output of the above command). Also, note the parent process id of your shell.

```
(gurus) guru@pyimagesearch-gurus:~$ ps -F -t pts/0
UID      PID  PPID  C   SZ   RSS  PSR  STIME  TTY          TIME CMD
guru     5286  5277  0 6989 6404   0 11:28 pts/0        00:00:00 bash
guru     5399  5286  0 5662 2532   0 12:04 pts/0        00:00:00 ps -F -t pts/0
(gurus) guru@pyimagesearch-gurus:~$
```

4. Start 3 instances of “sleep 123” as background processes.

```
(gurus) guru@pyimagesearch-gurus:~$ sleep 123 &
[1] 5413
(gurus) guru@pyimagesearch-gurus:~$ sleep 123 &
[2] 5414
(gurus) guru@pyimagesearch-gurus:~$ sleep 123 &
[3] 5415
```

5. Check and note the process id's of all sleep processes.

```
(gurus) guru@pyimagesearch-gurus:~$ ps -t pts/0
PID TTY          TIME CMD
5286 pts/0      00:00:00 bash
5413 pts/0      00:00:00 sleep
5414 pts/0      00:00:00 sleep
5415 pts/0      00:00:00 sleep
5416 pts/0      00:00:00 ps
```

6. Display only those three sleep processes in top. Then quit top.

```
(gurus) guru@pyimagesearch-gurus:~$ top -p 5413,5414,5415

top - 12:18:51 up 9:17, 2 users, load average: 0.15, 0.11, 0.13
Tasks: 3 total, 0 running, 3 sleeping, 0 stopped, 0 zombie
%Cpu(s): 3.7 us, 0.3 sy, 0.0 ni, 96.0 id, 0.0 wa, 0.0 hi, 0.0 si, 0.0 st
KiB Mem: 2049076 total, 1609860 used, 439216 free, 130132 buffers
KiB Swap: 2095100 total, 212 used, 2094888 free. 742168 cached Mem

  PID USER      PR  NI   VIRT   RES   SHR  S  %CPU  %MEM    TIME+  COMMAND
 5413 guru       20   0   11396    672   596  S   0.0   0.0   0:00.00  sleep
 5414 guru       20   0   11396    648   568  S   0.0   0.0   0:00.00  sleep
 5415 guru       20   0   11396    700   620  S   0.0   0.0   0:00.00  sleep

(gurus) guru@pyimagesearch-gurus:~$ █
```