

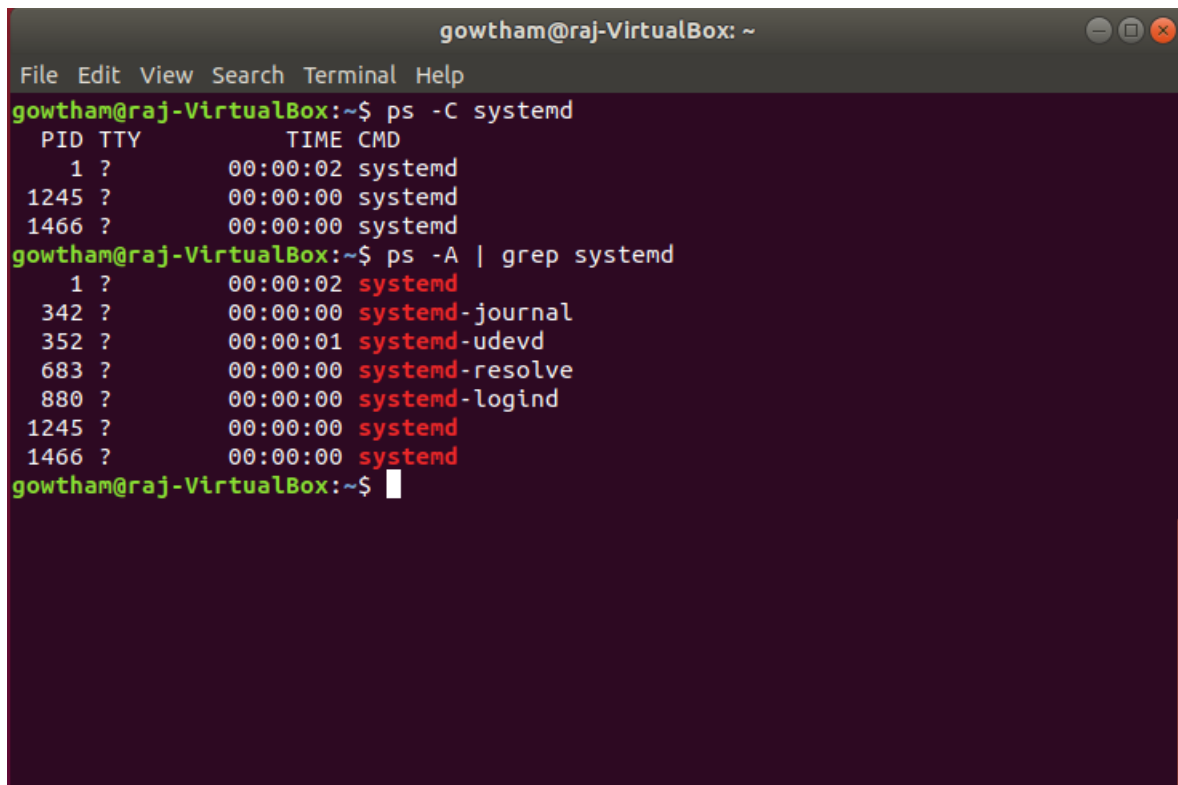
# Assignment - 3 (Day 6)

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## Question

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



```
gowtham@raj-VirtualBox: ~  
File Edit View Search Terminal Help  
gowtham@raj-VirtualBox:~$ ps -C systemd  
  PID TTY          TIME CMD  
    1 ?            00:00:02 systemd  
  1245 ?            00:00:00 systemd  
  1466 ?            00:00:00 systemd  
gowtham@raj-VirtualBox:~$ ps -A | grep systemd  
    1 ?            00:00:02 systemd  
   342 ?            00:00:00 systemd-journal  
   352 ?            00:00:01 systemd-udevd  
   683 ?            00:00:00 systemd-resolve  
   880 ?            00:00:00 systemd-logind  
  1245 ?            00:00:00 systemd  
  1466 ?            00:00:00 systemd  
gowtham@raj-VirtualBox:~$
```

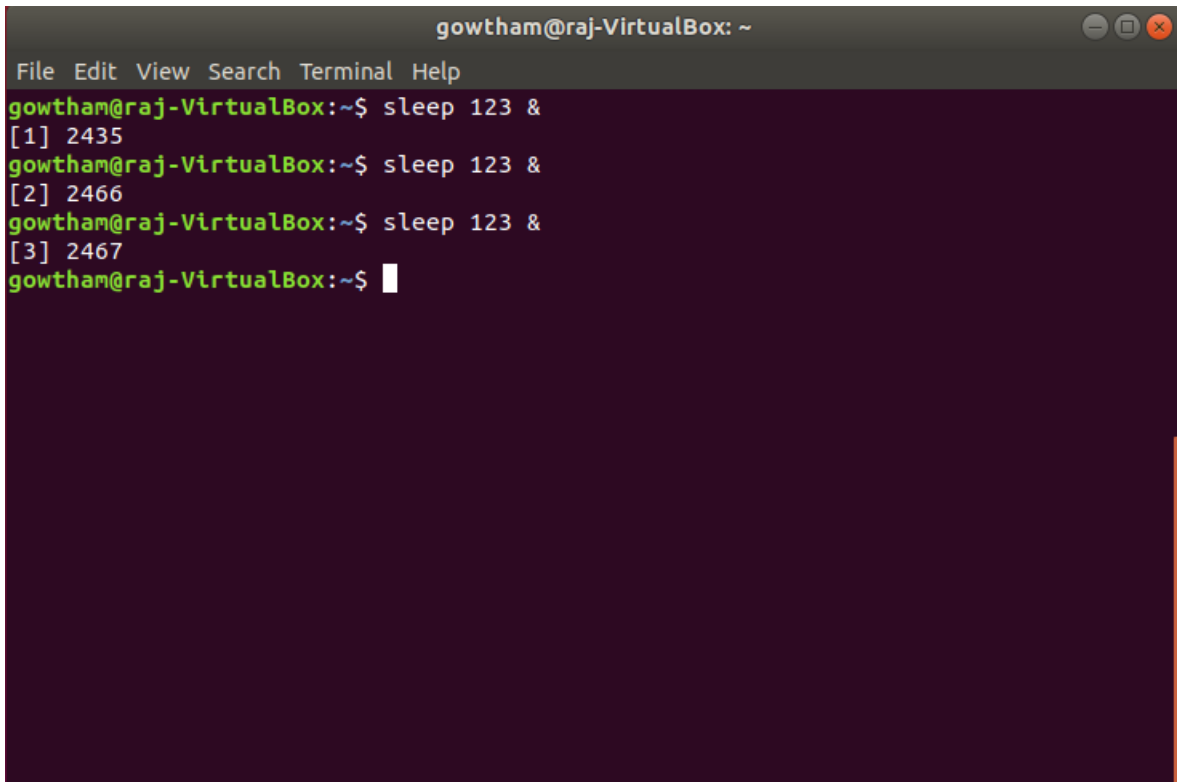
2. Find out your terminal name. Using your terminal name, use ps to find all processes associated With your terminal.

```
gowtham@raj-VirtualBox: ~  
File Edit View Search Terminal Help  
1929 ? Ssl 0:00 /usr/lib/evolution/evolution-calendar-factory  
1937 tty2 Sl 0:04 /usr/lib/ibus/ibus-engine-simple  
1954 ? Sl 0:00 /usr/lib/gvfs/gvfsd-trash --spawner :1.7 /org/gtk/gvfs/exec_spaw/0  
1984 ? Sl 0:00 /usr/lib/evolution/evolution-calendar-factory-subprocess --factory all --bus-name org.gnome.evolution.dataserver.Su  
1985 ? Ssl 0:00 /usr/lib/gvfs/gvfsd-metadata  
1999 tty2 SLL+ 0:10 /usr/bin/gnome-software --gapplication-service  
2003 tty2 SL+ 0:01 update-notifier  
2099 tty2 SL+ 0:00 /usr/lib/deja-dup/deja-dup-monitor  
2953 ? I 0:00 [kworker/2:2-eve]  
3053 ? Ssl 0:09 /usr/lib/gnome-terminal/gnome-terminal-server  
3063 pts/0 Ss+ 0:00 bash  
3109 ? Ssl 0:00 /usr/lib/fwupd/fwupd  
3192 ? Ss 0:00 /usr/sbin/cupsd -l  
3193 ? Ssl 0:00 /usr/sbin/cups-browsed  
3282 ? I 0:00 [kworker/1:0-eve]  
3284 ? I 0:00 [kworker/3:2-eve]  
3357 ? I 0:00 [kworker/u8:0+ev]  
3391 ? I 0:01 [kworker/3:1-eve]  
3392 ? I 0:00 [kworker/1:2-eve]  
3413 ? I 0:00 [kworker/u8:2-ev]  
3416 ? I 0:00 [kworker/2:1-cgr]  
3444 ? I 0:00 [kworker/0:1-eve]  
3447 ? I 0:00 [kworker/u8:1-ev]  
3450 pts/1 Ss 0:00 bash  
3462 ? I 0:00 [kworker/0:0-eve]  
3492 ? Sl 0:01 /usr/bin/nautilus --gapplication-service  
3505 ? Sl 0:00 gedit /home/gowtham/var.txt  
3514 ? I 0:00 [kworker/0:2-eve]  
3515 ? I 0:00 [kworker/0:3-ata]  
3516 ? I 0:00 [kworker/0:4-cgr]  
3517 ? I 0:00 [kworker/0:5]  
3519 ? I 0:00 [kworker/u8:3-ev]  
3520 pts/1 R+ 0:00 ps -A T  
gowtham@raj-VirtualBox:~$ ps -T  
PID SPID TTY TIME CMD  
3450 3450 pts/1 00:00:00 bash  
3525 3525 pts/1 00:00:00 ps  
gowtham@raj-VirtualBox:~$
```

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.

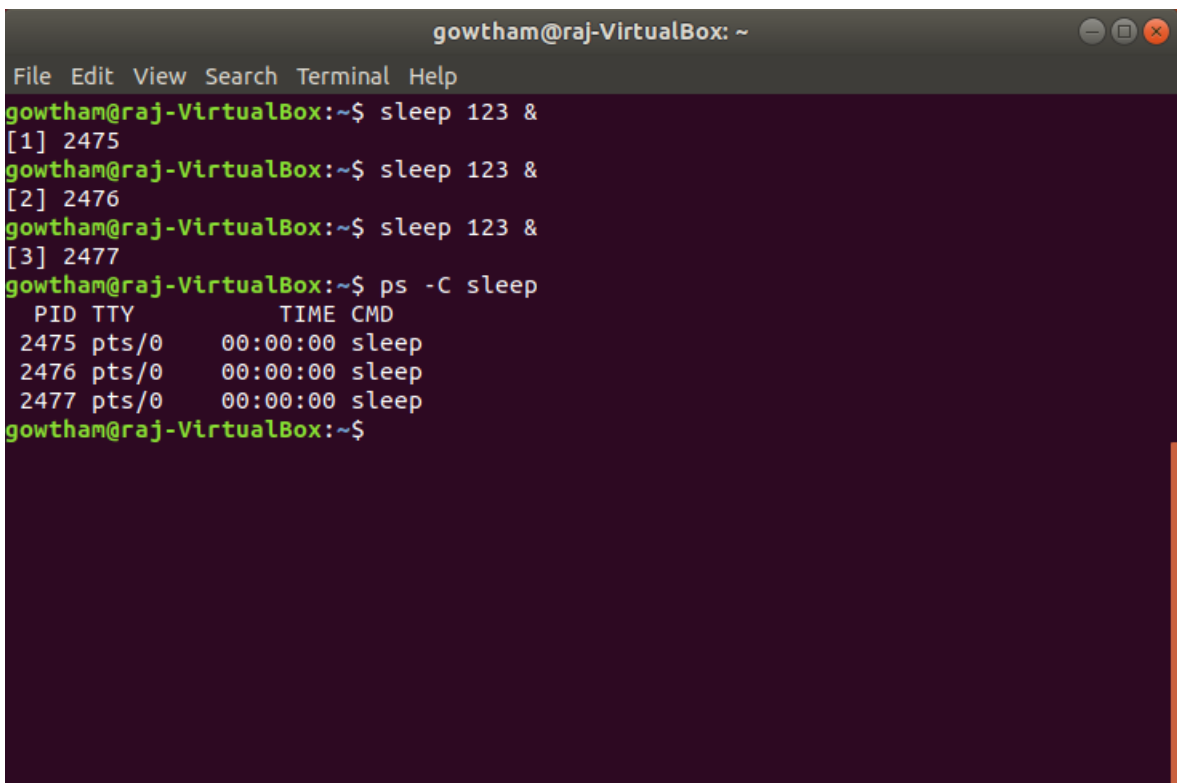
```
gowtham@raj-VirtualBox: ~  
File Edit View Search Terminal Help  
gowtham@raj-VirtualBox:~$ ps -T  
PID TTY STAT TIME COMMAND  
2123 pts/0 Ss 0:00 bash  
2411 pts/0 R+ 0:00 ps T  
gowtham@raj-VirtualBox:~$
```

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



```
gowtham@raj-VirtualBox: ~  
File Edit View Search Terminal Help  
gowtham@raj-VirtualBox:~$ sleep 123 &  
[1] 2435  
gowtham@raj-VirtualBox:~$ sleep 123 &  
[2] 2466  
gowtham@raj-VirtualBox:~$ sleep 123 &  
[3] 2467  
gowtham@raj-VirtualBox:~$
```

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



```
gowtham@raj-VirtualBox: ~  
File Edit View Search Terminal Help  
gowtham@raj-VirtualBox:~$ sleep 123 &  
[1] 2475  
gowtham@raj-VirtualBox:~$ sleep 123 &  
[2] 2476  
gowtham@raj-VirtualBox:~$ sleep 123 &  
[3] 2477  
gowtham@raj-VirtualBox:~$ ps -C sleep  
  PID TTY          TIME CMD  
 2475 pts/0    00:00:00 sleep  
 2476 pts/0    00:00:00 sleep  
 2477 pts/0    00:00:00 sleep  
gowtham@raj-VirtualBox:~$
```

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

```
gowtham@raj-VirtualBox: ~  
File Edit View Search Terminal Help  
top - 15:59:27 up 1:08, 1 user, load average: 0.06, 0.05, 0.06  
Tasks: 3 total, 0 running, 3 sleeping, 0 stopped, 0 zombie  
%Cpu(s): 0.1 us, 0.2 sy, 0.0 ni, 99.7 id, 0.0 wa, 0.0 hi, 0.0 si, 0.0 st  
KiB Mem : 3051120 total, 1068176 free, 1085444 used, 897500 buff/cache  
KiB Swap: 1918400 total, 1918400 free, 0 used. 1795220 avail Mem
```

PID	USER	PR	NI	VIRT	RES	SHR	S	%CPU	%MEM	TIME+	COMMAND
2475	gowtham	20	0	14572	832	772	S	0.0	0.0	0:00.00	sleep
2476	gowtham	20	0	14572	732	668	S	0.0	0.0	0:00.00	sleep
2477	gowtham	20	0	14572	820	756	S	0.0	0.0	0:00.00	sleep