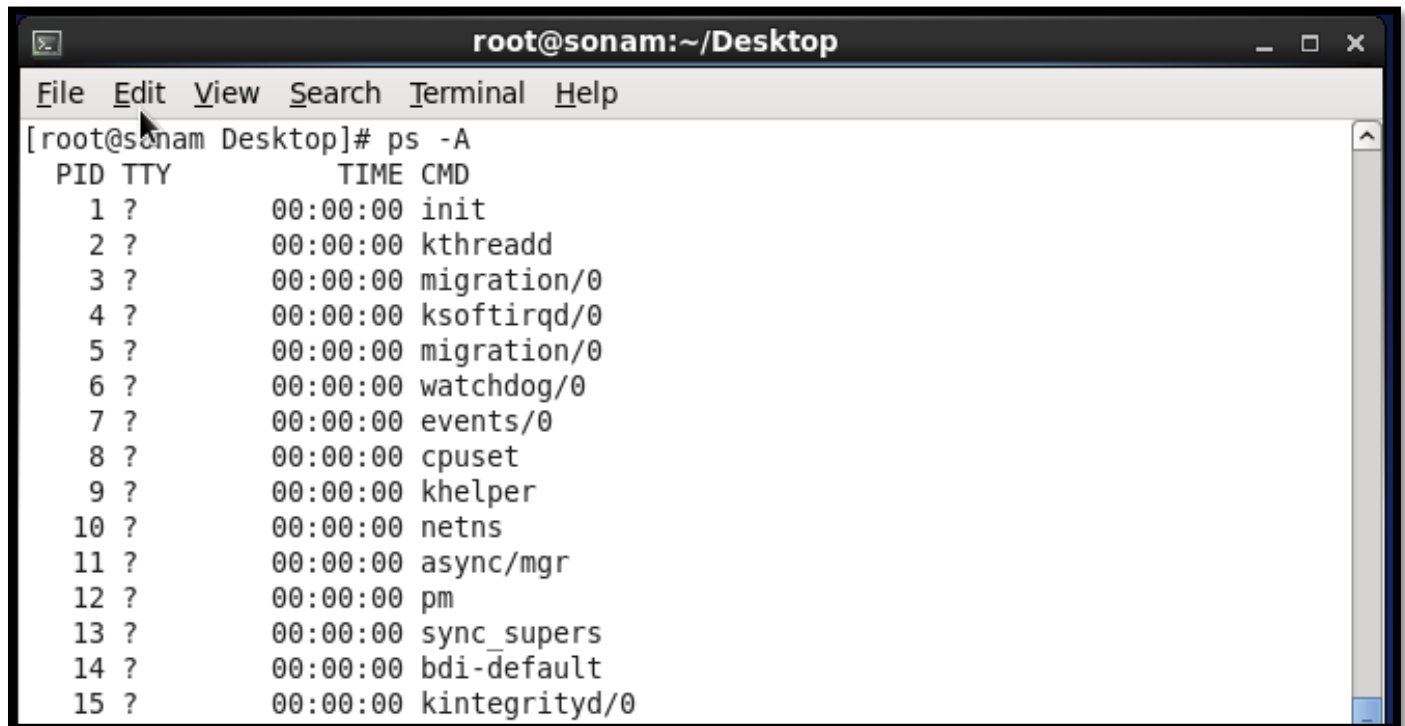


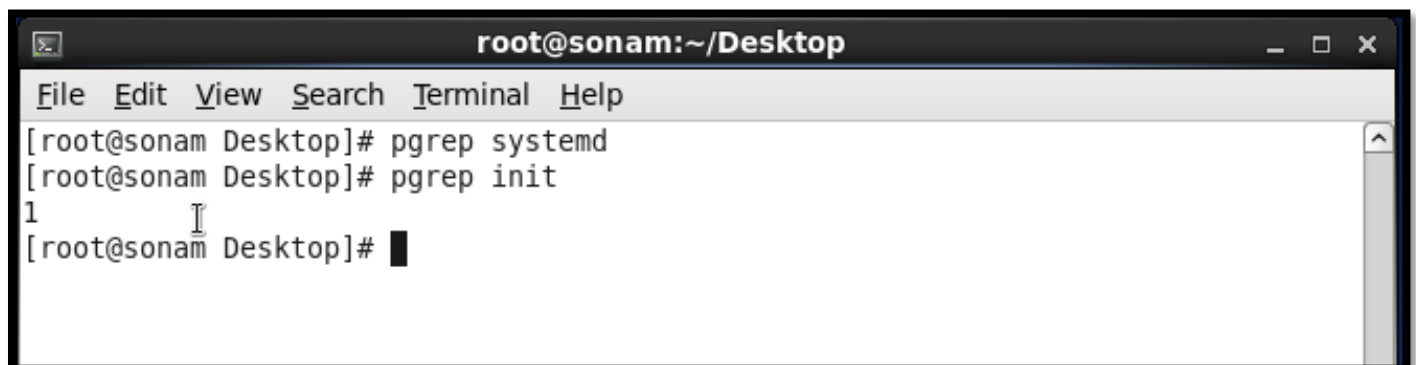
Assignment Day 6 | 7th December 2020

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



```
root@sonam:~/Desktop
File Edit View Search Terminal Help
[root@sonam Desktop]# ps -A
  PID TTY          TIME CMD
    1 ?            00:00:00 init
    2 ?            00:00:00 kthreadd
    3 ?            00:00:00 migration/0
    4 ?            00:00:00 ksoftirqd/0
    5 ?            00:00:00 migration/0
    6 ?            00:00:00 watchdog/0
    7 ?            00:00:00 events/0
    8 ?            00:00:00 cpuset
    9 ?            00:00:00 khelper
   10 ?            00:00:00 netns
   11 ?            00:00:00 async/mgr
   12 ?            00:00:00 pm
   13 ?            00:00:00 sync_supers
   14 ?            00:00:00 bdi-default
   15 ?            00:00:00 kintegrityd/0
```

As you can see, there is no systemd process in my system and the first command which is executed is init, so will be searching for it.



```
root@sonam:~/Desktop
File Edit View Search Terminal Help
[root@sonam Desktop]# pgrep systemd
[root@sonam Desktop]# pgrep init
1
[root@sonam Desktop]#
```

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

```
File Edit View Search Terminal Help
[root@sonam Desktop]# tty
/dev/pts/0
[root@sonam Desktop]# ps -ef | grep 'pts/0'
root      2364  2362  0 15:14 pts/0    00:00:00 /bin/bash -l
root      2526  2364  0 15:42 pts/0    00:00:00 ps -ef
root      2527  2364  0 15:42 pts/0    00:00:00 grep pts/0
[root@sonam Desktop]#
```

- 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.**

```
File Edit View Search Terminal Help
[root@sonam Desktop]# ps -ef | head -1 && ps -ef | grep 'pts/0'
UID        PID  PPID  C STIME TTY          TIME CMD
root        2364  2362  0 15:14 pts/0    00:00:00 /bin/bash -l
root        2557  2364  1 15:49 pts/0    00:00:00 ps -ef
root        2558  2364  0 15:49 pts/0    00:00:00 grep pts/0
[root@sonam Desktop]#
```

Process id of shell: 2364

Parent Process ID: 2362

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

```
[root@sonam Desktop]#
[root@sonam Desktop]# sleep 123 &
[1] 2570
[root@sonam Desktop]# sleep 123 &
[2] 2571
[root@sonam Desktop]# sleep 123 &
[3] 2572
[root@sonam Desktop]#
```

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

```
root@sonam:~/Desktop
File Edit View Search Terminal Help
[root@sonam Desktop]# sleep 123 &
[1] 2852
[root@sonam Desktop]# sleep 123 &
[2] 2853
[root@sonam Desktop]# sleep 123 &
[3] 2854
[root@sonam Desktop]# ps -ef | head -1 && ps -ef | grep 'sleep'
UID          PID  PPID  C  STIME TTY          TIME CMD
root         2852   2364  0  16:52 pts/0        00:00:00 sleep 123
root         2853   2364  0  16:52 pts/0        00:00:00 sleep 123
root         2854   2364  0  16:52 pts/0        00:00:00 sleep 123
root         2858   2364  0  16:52 pts/0        00:00:00 grep sleep
```

Process IDs: 2852, 2853, 2854

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

```
root@sonam:~/Desktop
File Edit View Search Terminal Help
[root@sonam Desktop]# ps -ef | head -1 && ps -ef | grep 'sleep'
UID          PID  PPID  C  STIME TTY          TIME CMD
root         2852   2364  0  16:52 pts/0        00:00:00 sleep 123
root         2853   2364  0  16:52 pts/0        00:00:00 sleep 123
root         2854   2364  0  16:52 pts/0        00:00:00 sleep 123
root         2866   2364  0  16:53 pts/0        00:00:00 grep sleep
[root@sonam Desktop]#
[root@sonam Desktop]#
[root@sonam Desktop]#
[root@sonam Desktop]# top -p 2852,2853,2854
```

File Edit View Search Terminal Help

```
top - 16:53:21 up 2:03, 3 users, load average: 0.00, 0.00, 0.00
Tasks: 3 total, 0 running, 3 sleeping, 0 stopped, 0 zombie
Cpu(s): 0.7%us, 0.3%sy, 0.0%ni, 98.7%id, 0.0%wa, 0.0%hi, 0.3%si, 0.0%st
Mem: 792312k total, 732696k used, 59616k free, 13692k buffers
Swap: 1605624k total, 0k used, 1605624k free, 413244k cached
```

PID	USER	PR	NI	VIRT	RES	SHR	S	%CPU	%MEM	TIME+	COMMAND
2852	root	20	0	98.5m	564	492	S	0.0	0.1	0:00.00	sleep
2853	root	20	0	98.5m	564	492	S	0.0	0.1	0:00.00	sleep
2854	root	20	0	98.5m	560	492	S	0.0	0.1	0:00.00	sleep