Day 6 Assignment

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Question

1. Use ps to search for the "systemd" process by name.
2. Find out your terminal name.Using your terminal name, use ps to find all processes associated   With your terminal.
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.
4. Start 3 instances of "sleep 123" as background processes.
5. Check and note the process id's of all sleep processes.
6. Display only those three sleep processes in top. Then quit top.

Answers

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

```
root@kali:~# ps -e | grep systemd
    1 ?        00:00:02 systemd
  322 ?        00:00:02 systemd-journal
  344 ?        00:00:00 systemd-udevd
  597 ?        00:00:00 systemd-logind
  786 ?        00:00:00 systemd
root@kali:~#
```

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

```
root@kali:~# who
root     tty7           2020-12-11 02:55 (:0)
root@kali:~# tty
/dev/pts/0
root@kali:~#  #root is logged in the terminal at tty7
root@kali:~#
```

Process associated with the terminal using ps command :

```
root@kali:~# ps -e | grep pts/0
   2399 pts/0    00:00:00 bash
   2504 pts/0    00:00:00 ps
   2505 pts/0    00:00:00 grep
root@kali:~# # these are the process associated on my terminal by root...
root@kali:~#
```

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.

```
root@kali:~# ps -ef
UID         PID    PPID  C STIME TTY          TIME CMD
root          1       0  0 02:55 ?        00:00:02 /sbin/init splash
root          2       0  0 02:55 ?        00:00:00 [kthreadd]
root          3       2  0 02:55 ?        00:00:00 [rcu_gp]
root          4       2  0 02:55 ?        00:00:00 [rcu_par_gp]
root          6       2  0 02:55 ?        00:00:00 [kworker/0:0H-kblockd]
root          8       2  0 02:55 ?        00:00:00 [kworker/u4:0-events_unbound]
root          9       2  0 02:55 ?        00:00:00 [mm_percpu_wq]
root         10       2  0 02:55 ?        00:00:00 [ksoftirqd/0]
root         11       2  0 02:55 ?        00:00:00 [rcu_sched]
root         12       2  0 02:55 ?        00:00:00 [migration/0]
root         13       2  0 02:55 ?        00:00:00 [cpuhp/0]
root         14       2  0 02:55 ?        00:00:00 [cpuhp/1]
root         15       2  0 02:55 ?        00:00:00 [migration/1]
root         16       2  0 02:55 ?        00:00:00 [ksoftirqd/1]
root         18       2  0 02:55 ?        00:00:00 [kworker/1:0H-kblockd]
root         19       2  0 02:55 ?        00:00:00 [kdevtmpfs]
root         20       2  0 02:55 ?        00:00:00 [netns]
root         21       2  0 02:55 ?        00:00:00 [kauditd]
root         22       2  0 02:55 ?        00:00:00 [khungtaskd]
root         23       2  0 02:55 ?        00:00:00 [oom_reaper]
root         24       2  0 02:55 ?        00:00:00 [writeback]
```

```
root      2265      786   0 02:55 ?        00:00:00 /usr/lib/dconf/dconf-service
root      2266      803   0 02:55 ?        00:00:00 /usr/lib/policykit-1-gnome/polkit-gnome-aut
root      2276      786   0 02:55 ?        00:00:00 /usr/lib/x86_64-linux-gnu/xfce4/notifyd/xfc
root      2304     2208   0 02:55 ?        00:00:00 /usr/lib/x86_64-linux-gnu/xfce4/panel/wrapp
root      2311      786   0 02:55 ?        00:00:00 /usr/lib/evolution-source-registry
root      2312     2208   0 02:55 ?        00:00:02 /usr/lib/x86_64-linux-gnu/xfce4/panel/wrapp
root      2315     2208   0 02:55 ?        00:00:01 /usr/lib/x86_64-linux-gnu/xfce4/panel/wrapp
root      2317     2208   0 02:55 ?        00:00:00 /usr/lib/x86_64-linux-gnu/xfce4/panel/wrapp
root      2318     2208   0 02:55 ?        00:00:00 /usr/lib/x86_64-linux-gnu/xfce4/panel/wrapp
root      2330      786   0 02:55 ?        00:00:00 /usr/lib/gvfs/gvfs-udisks2-volume-monitor
root      2333        1   0 02:55 ?        00:00:00 /usr/lib/udisks2/udisksd
root      2349      786   0 02:55 ?        00:00:00 /usr/libexec/evolution-calendar-factory
root      2364      786   0 02:55 ?        00:00:00 /usr/libexec/evolution-addressbook-factory
root      2379      919   0 02:55 ?        00:00:00 /usr/lib/gvfs/gvfsd-trash --spawner :1.12 /
root      2387      786   0 02:55 ?        00:00:00 /usr/lib/gvfs/gvfsd-metadata
root      2394     2208   0 02:56 ?        00:00:04 xfce4-terminal
root      2399     2394   0 02:56 pts/0    00:00:00 bash
root      2416     2394   0 02:56 pts/1    00:00:00 bash
root      2484        2   0 03:09 ?        00:00:00 [kworker/0:0-events]
root      2507        2   0 03:11 ?        00:00:00 [kworker/1:0-ata_sff]
root      2513        2   0 03:16 ?        00:00:00 [kworker/1:2-ata_sff]
root      2520     2399   0 03:21 pts/0    00:00:00 ps -ef
root@kali:~#
```

4.Start 3 instances of "sleep 123" as background processes.

Starting three instances :


```
root@kali:~# sleep 123 &
[1] 2536
root@kali:~# sleep 123 &
[2] 2537
root@kali:~# sleep 123 &
[3] 2538
root@kali:~# #started three sleep instances
```

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


```
root@kali:~# ps -ef | grep "sleep"
root      2536     2534   0 03:25 pts/0    00:00:00 sleep 123
root      2537     2534   0 03:25 pts/0    00:00:00 sleep 123
root      2538     2534   0 03:25 pts/0    00:00:00 sleep 123
```

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


```
File  Edit  View  Terminal  Tabs  Help
root@kali:~# top -b | grep sleep
Tasks: 134 total,    1 running, 133 sleeping,    0 stopped,    0 zombie
Tasks: 134 total,    1 running, 133 sleeping,    0 stopped,    0 zombie
Tasks: 134 total,    1 running, 133 sleeping,    0 stopped,    0 zombie
Tasks: 134 total,    1 running, 133 sleeping,    0 stopped,    0 zombie
Tasks: 134 total,    1 running, 133 sleeping,    0 stopped,    0 zombie
Tasks: 134 total,    1 running, 133 sleeping,    0 stopped,    0 zombie
Tasks: 134 total,    1 running, 133 sleeping,    0 stopped,    0 zombie
Tasks: 134 total,    1 running, 133 sleeping,    0 stopped,    0 zombie
Tasks: 134 total,    1 running, 133 sleeping,    0 stopped,    0 zombie
Tasks: 134 total,    1 running, 133 sleeping,    0 stopped,    0 zombie
Tasks: 134 total,    1 running, 133 sleeping,    0 stopped,    0 zombie
Tasks: 134 total,    1 running, 133 sleeping,    0 stopped,    0 zombie
```