Question 1
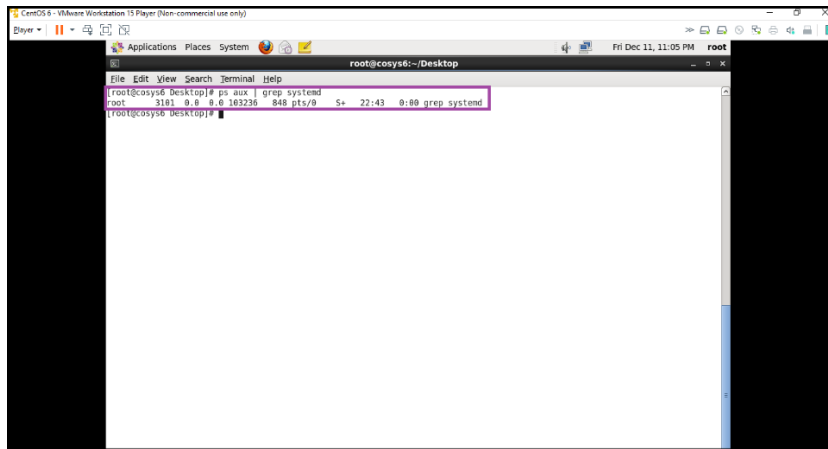
1. Use ps to search for the "systemd" process by name.
2. Find out your terminal name.Using your terminal name, use ps to find all processes associated With your terminal.
3. Check and note the process id of your shell (from the output of the above command). Also, note the parent process id of your shell.
4. Start 3 instances of "sleep 123" as background processes.
5. Check and note the process ids of all sleep processes.
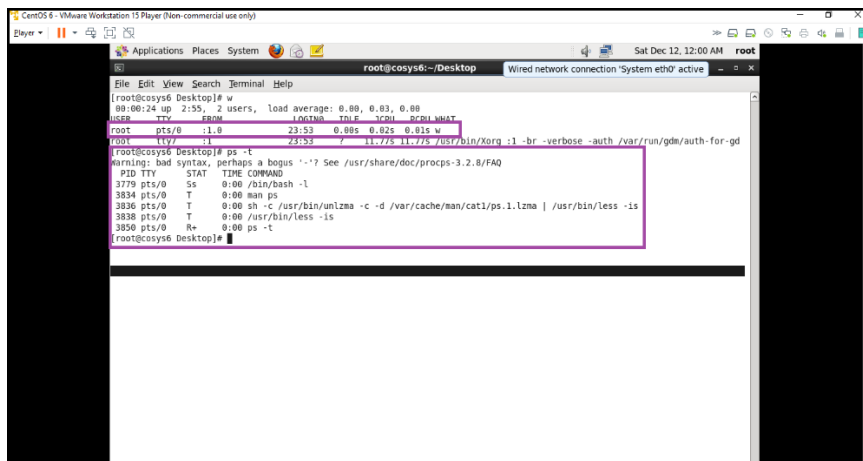6. Display only those three sleep processes in top. Then quit top.

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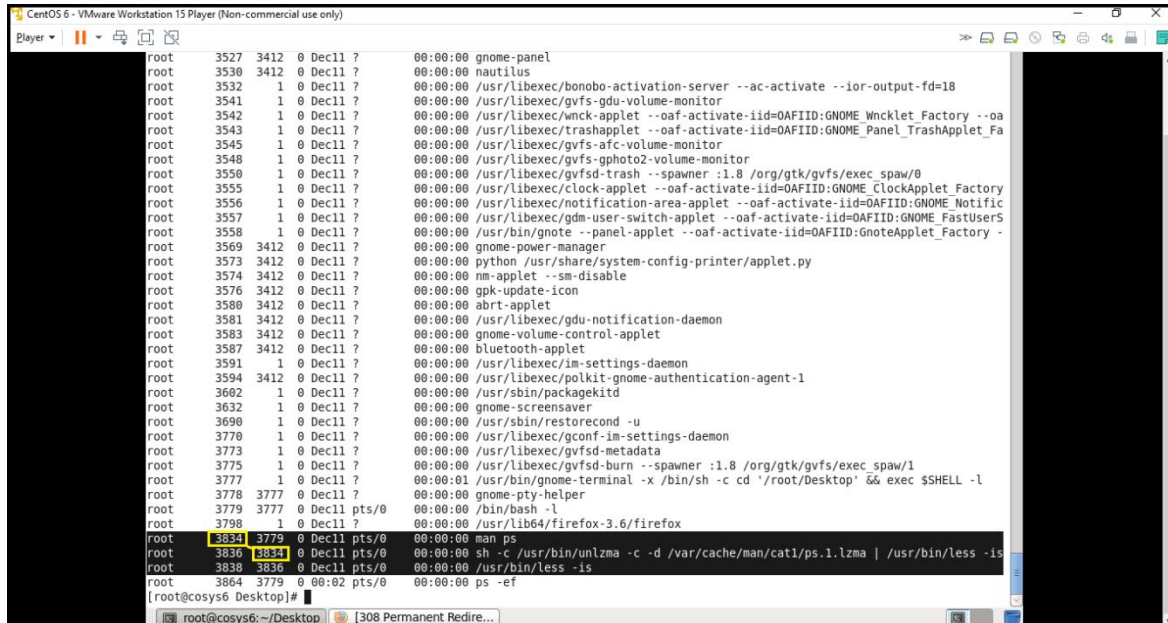
Screenshot 1:

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

Screenshot 1:

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Step 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.

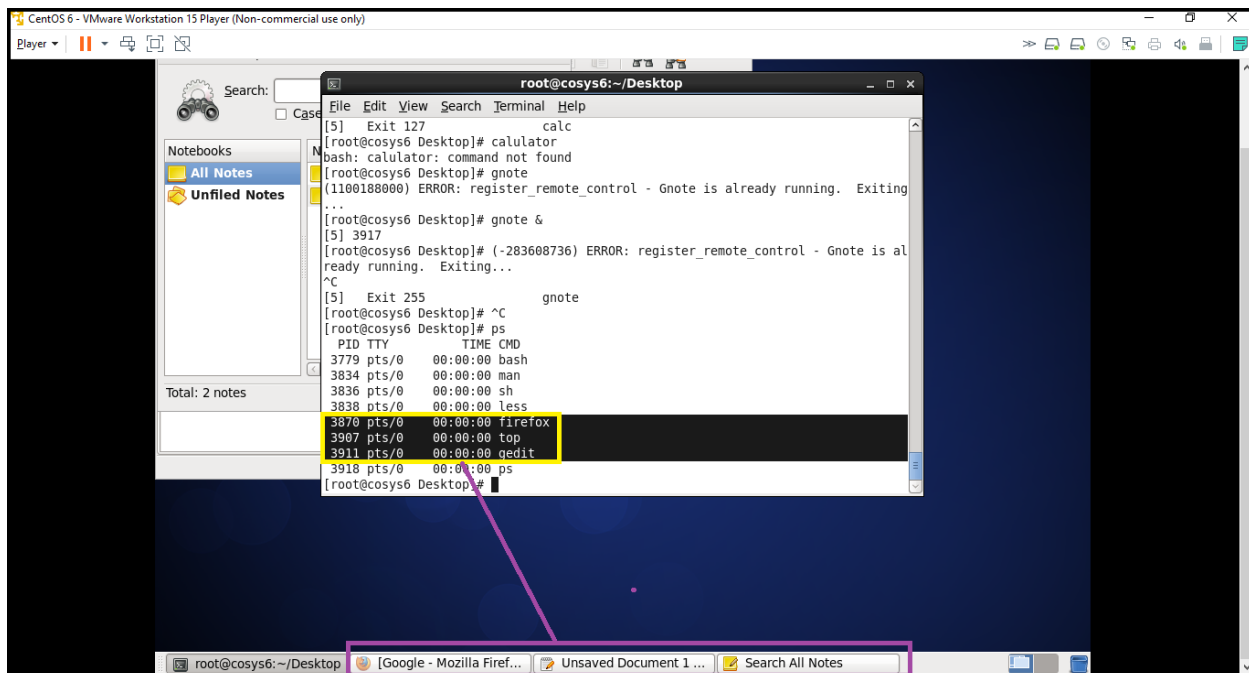**Screenshot 1:**

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

Screenshot 1:

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Step 5: Check and note the process ids of all sleep processes.

Screenshot 1:

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  PID USER      PR  NI  VIRT  RES  SHR S %CPU %MEM    TIME+  COMMAND
 1747 root      20   0  258m  30m 8076 S  1.8  3.1  0:49.79 Xorg
    1 root      20   0 19336 1500 1212 S  0.0  0.1  0:01.47 init
    2 root      20   0     0    0    0 S  0.0  0.0  0:00.01 kthreadd
    3 root      RT   0     0    0    0 S  0.0  0.0  0:00.00 migration/0
    4 root      20   0     0    0    0 S  0.0  0.0  0:00.00 ksoftirqd/0
    5 root      RT   0     0    0    0 S  0.0  0.0  0:00.00 migration/0
    6 root      RT   0     0    0    0 S  0.0  0.0  0:00.00 watchdog/0
    7 root      20   0     0    0    0 S  0.0  0.0  0:00.10 events/0
    8 root      20   0     0    0    0 S  0.0  0.0  0:00.00 cpuset
    9 root      20   0     0    0    0 S  0.0  0.0  0:00.00 khelper
   10 root      20   0     0    0    0 S  0.0  0.0  0:00.00 netns
   11 root      20   0     0    0    0 S  0.0  0.0  0:00.00 async/mgr
   12 root      20   0     0    0    0 S  0.0  0.0  0:00.00 pm
   13 root      20   0     0    0    0 S  0.0  0.0  0:00.00 sync_supers
   14 root      20   0     0    0    0 S  0.0  0.0  0:00.00 bdi-default
   15 root      20   0     0    0    0 S  0.0  0.0  0:00.00 kintegrityd/0
   16 root      20   0     0    0    0 S  0.0  0.0  0:00.19 kblockd/0
   17 root      20   0     0    0    0 S  0.0  0.0  0:00.00 kacpid
   18 root      20   0     0    0    0 S  0.0  0.0  0:00.00 kacpi_notify
   19 root      20   0     0    0    0 S  0.0  0.0  0:00.00 kacpi_hotplug
   20 root      20   0     0    0    0 S  0.0  0.0  0:07.34 ata/0
   21 root      20   0     0    0    0 S  0.0  0.0  0:00.00 ata_aux
   22 root      20   0     0    0    0 S  0.0  0.0  0:00.00 ksuspend_usbd
   23 root      20   0     0    0    0 S  0.0  0.0  0:00.00 khubd
   24 root      20   0     0    0    0 S  0.0  0.0  0:00.01 kseriod
   25 root      20   0     0    0    0 S  0.0  0.0  0:00.00 md/0
   26 root      20   0     0    0    0 S  0.0  0.0  0:00.00 md_misc/0
   27 root      20   0     0    0    0 S  0.0  0.0  0:00.00 khungtaskd
   28 root      20   0     0    0    0 S  0.0  0.0  0:00.03 kswapd0
   29 root      25   5     0    0    0 S  0.0  0.0  0:00.00 ksmd
   30 root      39  19     0    0    0 S  0.0  0.0  0:00.47 khugepaged
   31 root      20   0     0    0    0 S  0.0  0.0  0:00.00 aio/0
   32 root      20   0     0    0    0 S  0.0  0.0  0:00.00 crypto/0
   37 root      20   0     0    0    0 S  0.0  0.0  0:00.00 kthrotld/0
   38 root      20   0     0    0    0 S  0.0  0.0  0:00.00 pciehpd
   40 root      20   0     0    0    0 S  0.0  0.0  0:00.00 kpsmoused
   41 root      20   0     0    0    0 S  0.0  0.0  0:00.00 usbhid_resumer
   71 root      20   0     0    0    0 S  0.0  0.0  0:00.00 kstriped
  277 root      20   0     0    0    0 S  0.0  0.0  0:00.00 mpt_poll_0
  278 root      20   0     0    0    0 S  0.0  0.0  0:00.00 mpt/0
  279 root      20   0     0    0    0 S  0.0  0.0  0:00.00 scsi_eh_0
  286 root      20   0     0    0    0 S  0.0  0.0  0:00.00 scsi_eh_1
  287 root      20   0     0    0    0 S  0.0  0.0  0:00.23 scsi_eh_2
  385 root      20   0     0    0    0 S  0.0  0.0  0:00.71 jbd2/sda2-8
  386 root      20   0     0    0    0 S  0.0  0.0  0:00.00 ext4-dio-unwrit
  469 root      16  -4 11336 1448  328 S  0.0  0.1  0:00.10 udevd
  600 root      20   0     0    0    0 S  0.0  0.0  0:00.01 vmmemctl
  886 root      20   0     0    0    0 S  0.0  0.0  0:00.00 jbd2/sda1-8
  887 root      20   0     0    0    0 S  0.0  0.0  0:00.00 ext4-dio-unwrit
  984 root      20   0     0    0    0 S  0.0  0.0  0:00.00 kauditd
 1246 root      16  -4 27616  864  640 S  0.0  0.1  0:00.01 auditd
 1271 root      20   0  242m 3380  976 S  0.0  0.3  0:00.06 rsyslogd
 1313 rpc       20   0 18952  872  636 S  0.0  0.1  0:00.22 rpcbind
 1328 dbus      20   0 98008 2000  952 S  0.0  0.2  0:00.78 dbus-daemon
 1339 root      20   0 89940 4152 3392 S  0.0  0.4  0:00.09 NetworkManager
 1342 root      20   0 55828 2324 1872 S  0.0  0.2  0:00.02 modem-manager
 1355 root      20   0 39328  600  380 S  0.0  0.1  0:00.00 wpa_supplicant
 1357 avahi     20   0 27652 1552 1328 S  0.0  0.2  0:00.67 avahi-daemon
 1358 avahi     20   0 27652  372  196 S  0.0  0.0  0:00.00 avahi-daemon
 1375 rpcuser   20   0 23124 1192  916 S  0.0  0.1  0:00.00 rpc.statd
 1412 root      20   0     0    0    0 S  0.0  0.0  0:00.00 rpciod/0
 1419 root      20   0 29440  560  340 S  0.0  0.1  0:00.00 rpc.idmapd
 1429 root      20   0  184m 3316 2516 S  0.0  0.3  0:00.02 cupsd
 1454 root      20   0  4068  652  540 S  0.0  0.1  0:00.00 acpid
 1463 haldaemo  20   0 26284 5020 3984 S  0.0  0.5  0:00.18 hald
 1464 root      20   0 18100 1160  960 S  0.0  0.1  0:00.01 hald-runner
 1505 root      20   0 20216 1084  924 S  0.0  0.1  0:00.00 hald-addon-inpu
 1512 haldaemo  20   0 17796 1024  880 S  0.0  0.1  0:00.00 hald-addon-acpi
 1531 root      20   0  376m 1764 1292 S  0.0  0.2  0:00.02 automount
 1555 root      20   0 63944 1080  468 S  0.0  0.1  0:00.00 sshd
 1563 ntp       20   0 30124 1608 1172 S  0.0  0.2  0:00.11 ntpd
 1644 root      20   0 78544 3172 2384 S  0.0  0.3  0:00.02 master
 1651 postfix   20   0 78624 3152 2392 S  0.0  0.3  0:00.01 pickup
 1652 postfix   20   0 78692 3204 2436 S  0.0  0.3  0:00.01 qmgr
 1655 root      20   0  256m 4916 3372 S  0.0  0.5  0:00.15 abrtd
 1663 root      20   0  114m 1356  764 S  0.0  0.1  0:08.68 crond
 1674 root      20   0 21412  460  296 S  0.0  0.0  0:00.00 atd
 1688 root      20   0  118m 2092 1800 S  0.0  0.2  0:00.08 gdm-binary
 1700 root      20   0  4052  528  460 S  0.0  0.1  0:00.00 mingetty
 1703 root      20   0  4052  528  460 S  0.0  0.1  0:00.00 mingetty
 1707 root      20   0  4052  532  460 S  0.0  0.1  0:00.00 mingetty
 1710 root      20   0  4052  528  460 S  0.0  0.1  0:00.00 mingetty
 1718 root      20   0  4052  532  460 S  0.0  0.1  0:00.00 mingetty
 1719 root      18  -2 12520 2088  572 S  0.0  0.3  0:00.03 udevd
 1745 root      20   0  146m 3316 2552 S  0.0  0.3  0:00.03 gdm-simple-slav
 1762 root      20   0  561m 5252 2028 S  0.0  0.5  0:00.16 console-kit-dae
 1832 gdm       20   0 20020  660  416 S  0.0  0.1  0:00.00 dbus-launch
 1838 root      20   0 45096 2512 1952 S  0.0  0.2  0:00.08 devkit-power-da
 1887 root      20   0 49920 4012 2836 S  0.0  0.4  0:00.11 polkitd
 1892 rtkit     21   1  164m 1196 1004 S  0.0  0.1  0:00.02 rtkit-daemon
 1898 root      20   0  172m 2808 2272 S  0.0  0.3  0:00.13 gdm-session-wor
 1911 root      20   0  146m 5544 2872 S  0.0  0.5  0:00.02 gnome-keyring-d
 1920 root      20   0  284m  10m 8612 S  0.0  1.1  0:00.25 gnome-session
 1929 root      20   0 20020  652  408 S  0.0  0.1  0:00.00 dbus-launch
 1930 root      20   0 32272 3748  800 S  0.0  0.4  0:00.23 dbus-daemon
 2000 root      20   0  130m 5584 2100 S  0.0  0.5  0:00.26 gconfd-2
 2005 root      20   0  476m 9688 7444 S  0.0  0.9  0:00.76 gnome-settings-
 2015 root      20   0  131m 2048 1712 S  0.0  0.2  0:00.01 gvfsd
 2023 root      20   0  301m 7164 5084 S  0.0  0.7  0:00.07 seahorse-daemon
 2024 root      18  -2 11212 1560  556 S  0.0  0.2  0:00.00 udevd
 2026 root      20   0  418m  12m 9876 S  0.0  1.3  0:00.93 metacity
 2027 root      20   0  265m 4700 2032 S  0.0  0.5  0:00.00 gvfs-fuse-daemo
 2031 root      20   0  316m  13m 9752 S  0.0  1.3  0:00.74 gnome-panel
 2043 root      20   0  521m  20m  13m S  0.0  2.1  0:01.15 nautilus
 2045 root      20   0  680m 3348 2356 S  0.0  0.3  0:00.06 bonobo-activati
 2054 root      20   0  303m 9368 7148 S  0.0  0.9  0:00.03 trashapplet
 2055 root      20   0  316m  11m 8864 S  0.0  1.1  0:00.53 wnck-applet
 2057 root      20   0  140m 3036 2436 S  0.0  0.3  0:00.03 gvfs-gdu-volume
 2059 root      20   0 40620 2664 2080 S  0.0  0.3  0:00.12 udisks-daemon
 2063 root      20   0  137m 2868 2388 S  0.0  0.3  0:00.01 gvfsd-trash
 2064 root      20   0 40336  600  348 S  0.0  0.1  0:00.42 udisks-daemon
 2066 root      20   0  226m 2008 1660 S  0.0  0.2  0:00.06 gvfs-afc-volume
 2069 root      20   0  144m 2116 1728 S  0.0  0.2  0:00.04 gvfs-gphoto2-vo
 2078 root      20   0  389m  18m  14m S  0.0  1.9  0:00.38 gnote
 2079 root      20   0  378m  10m 8432 S  0.0  1.1  0:00.10 gdm-user-switch
 2080 root      20   0  453m  12m  10m S  0.0  1.3  0:00.54 clock-applet
 2081 root      20   0  278m 7812 6264 S  0.0  0.8  0:00.06 notification-ar
 2141 root      20   0  246m 6952 5512 S  0.0  0.7  0:00.11 gnome-power-man
 2145 root      20   0  332m  19m 9792 S  0.0  2.0  0:00.30 python
 2148 root      20   0  294m  11m 8872 S  0.0  1.1  0:00.14 nm-applet
 2151 root       9 -11  425m 4968 3608 S  0.0  0.5  0:02.68 pulseaudio
 2152 root      20   0  301m  12m 9684 S  0.0  1.2  0:00.25 gpk-update-icon
 2155 root      20   0  221m 5964 4776 S  0.0  0.6  0:00.04 abrt-applet
 2156 root      20   0  244m 6484 5132 S  0.0  0.6  0:00.04 gdu-notificatio
 2159 root      20   0  349m  18m 8124 S  0.0  1.1  0:00.10 gnome-volume-co
 2161 root      20   0 79688 2444 2020 S  0.0  0.2  0:00.00 gconf-helper
 2163 root      20   0  250m 7968 5964 S  0.0  0.8  0:00.06 bluetooth-apple
 2173 root      20   0  219m 5336 4292 S  0.0  0.5  0:00.01 polkit-gnome-au
 2176 root      20   0  111m 3740 3104 S  0.0  0.4  0:00.04 im-settings-dae
 2182 root      20   0  268m  21m 4428 S  0.0  2.2  0:00.89 gnome-screensav
 2219 root      20   0 41984  17m  408 S  0.0  1.8  0:00.01 restorecond
 2347 root      20   0 38248 2156 1856 S  0.0  0.2  0:00.02 gconf-im-settin
 2351 root      20   0  129m 1704 1424 S  0.0  0.2  0:00.00 gvfsd-metadata
 2354 root      20   0  131m 2148 1840 S  0.0  0.2  0:00.00 gvfsd-burn
 3016 root      20   0  9100 1548 1064 S  0.0  0.2  0:00.01 dhclient
 3164 root      20   0     0    0    0 S  0.0  0.0  0:00.01 flush-8:0
 3257 root      20   0  284m  12m 9324 S  0.0  1.2  0:00.19 gnome-terminal
 3258 root      20   0  8212  684  584 S  0.0  0.1  0:00.00 gnome-pty-helpe
 3259 root      20   0  105m 1772 1412 S  0.0  0.2  0:00.00 bash
 3277 root      20   0 15016 1096  808 R  0.0  0.1  0:00.04 top
```

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

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Screenshot 1:

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