

Assignment Day 6 | 7th December 2020

For any doubts regarding the assignment, ask questions in the [Linux](#)

[Administration 101 B1](#) Group in the Community.

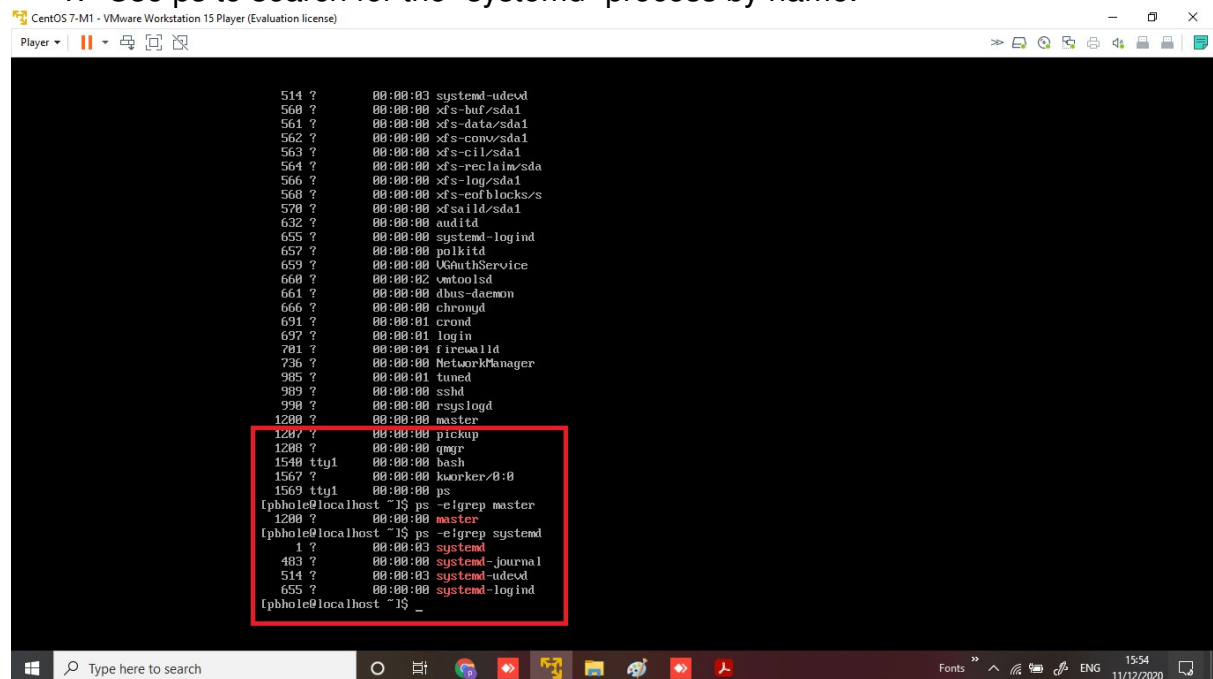
Submit Assignments by 12th December 2020 11:59 PM.

Assignment Submit Form: <https://forms.gle/9MNzWbdDXhhdstWEA>

Submit assignments in Appropriate Dropdowns.

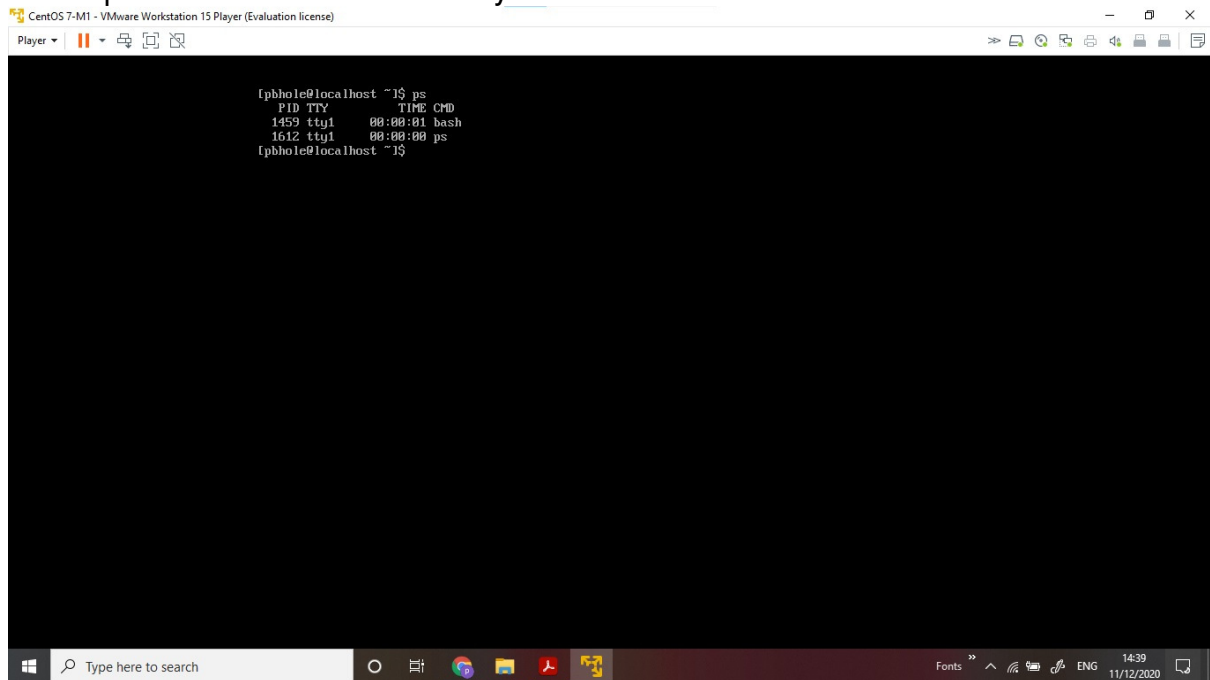
Question 1

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



```
514 ?      00:00:03 systemd-udevd
560 ?      00:00:00 xfs-huf/sda1
561 ?      00:00:00 xfs-data/sda1
562 ?      00:00:00 xfs-convm/sda1
563 ?      00:00:00 xfs-cil/sda1
564 ?      00:00:00 xfs-reclaim/sda1
566 ?      00:00:00 xfs-log/sda1
560 ?      00:00:00 xfs-eofblocks/s
570 ?      00:00:00 xfsaild/sda1
632 ?      00:00:00 auditd
655 ?      00:00:00 systemd-logind
657 ?      00:00:00 polkitd
659 ?      00:00:00 UGAuthService
660 ?      00:00:02 udevd
661 ?      00:00:00 dbus-daemon
666 ?      00:00:00 chronyd
691 ?      00:00:01 cron
697 ?      00:00:01 login
701 ?      00:00:04 firewalld
736 ?      00:00:00 NetworkManager
985 ?      00:00:01 tuned
989 ?      00:00:00 sshd
990 ?      00:00:00 rsyslogd
1200 ?     00:00:00 master
1207 ?     00:00:00 pickup
1208 ?     00:00:00 qmgr
1540 tty1   00:00:00 bash
1567 ?     00:00:00 kworker/0:0
1569 tty1   00:00:00 ps
[pphole@localhost ~]$ ps -e | grep master
1200 ?     00:00:00 master
[pphole@localhost ~]$ ps -e | grep systemd
1 ?       00:00:03 systemd
483 ?     00:00:00 systemd-journal
514 ?     00:00:03 systemd-udevd
655 ?     00:00:00 systemd-logind
[pphole@localhost ~]$
```

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

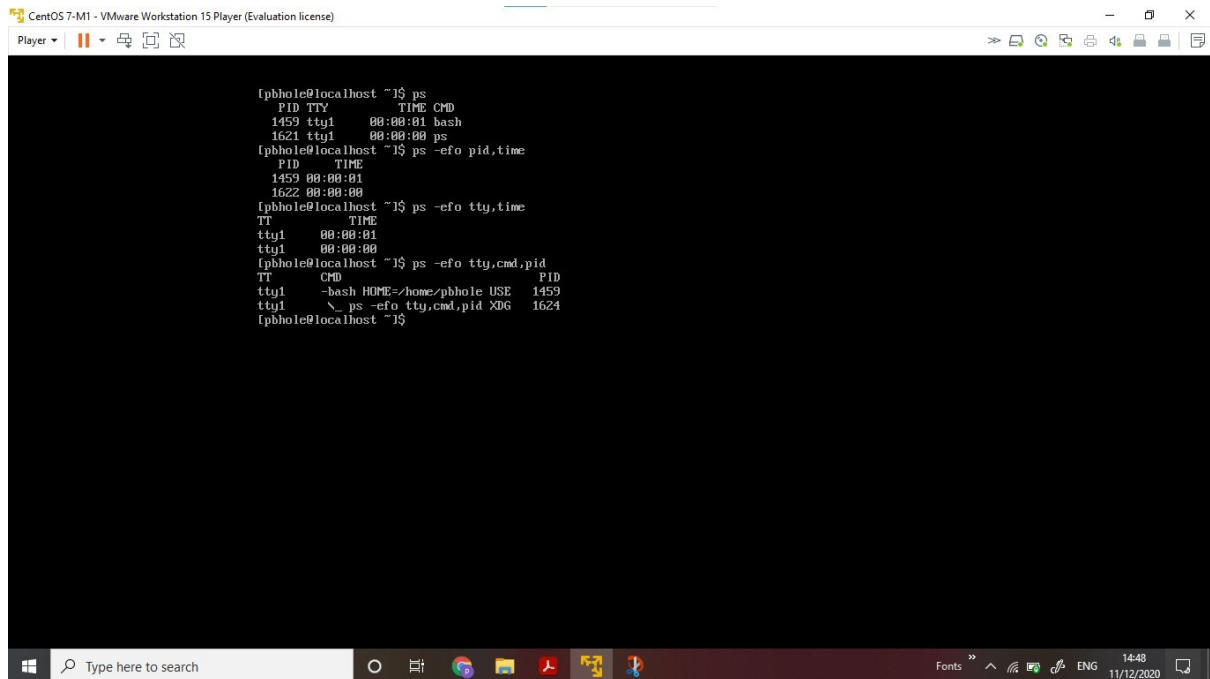


CentOS 7-M1 - VMware Workstation 15 Player (Evaluation license)

```
[pbhole@localhost ~]$ ps
PID TTY      TIME CMD
1459 tty1    00:00:01 bash
1612 tty1    00:00:00 ps
[pbhole@localhost ~]$
```

Type here to search

14:39 11/12/2020



CentOS 7-M1 - VMware Workstation 15 Player (Evaluation license)

```
[pbhole@localhost ~]$ ps
PID TTY      TIME CMD
1459 tty1    00:00:01 bash
1621 tty1    00:00:00 ps
[pbhole@localhost ~]$ ps -efo pid,time
PID      TIME
1459 00:00:01
1622 00:00:00
[pbhole@localhost ~]$ ps -efo tty,time
TT      TIME
tty1    00:00:01
tty1    00:00:00
[pbhole@localhost ~]$ ps -efo tty,cmd,pid
TT      CMD      PID
tty1    -bash   1459
tty1    \_ ps   1624
[pbhole@localhost ~]$
```

Type here to search

14:48 11/12/2020

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      664  0.0  0.2 160144 5024 ?    Ss   09:07   0:00 /usr/bin/ACAuthService -s
root      665  0.3  0.2 272972 4768 ?    Ssl  09:07   0:10 /usr/bin/vmtoolsd
dbus      666  0.0  0.1 66452 2548 ?    Ssl  09:07   0:00 /usr/bin/dbus-daemon --system --ad
polkitd   672  0.0  0.6 612232 12096 ?   Ssl  09:07   0:00 /usr/lib/polkit-1/polkitd --no-deb
root      674  0.0  0.0 26404 1784 ?    Ss   09:07   0:00 /usr/lib/systemd/systemd-logind
root      679  0.0  0.0 126304 1668 ?    Ss   09:07   0:01 /usr/sbin/crond -n
chrony    683  0.0  0.0 117808 1684 ?    S    09:07   0:00 /usr/sbin/chronyd
root      698  0.0  0.1 96572 2520 ?    Ss   09:07   0:00 login -- pbbhole
root      724  0.0  1.6 359508 30700 ?   Ssl  09:07   0:02 /usr/bin/python2 -Es /usr/sbin/fir
root      743  0.0  0.4 474108 8356 ?    Ssl  09:07   0:00 /usr/sbin/NetworkManager --no-daem
root      1006  0.0  0.9 574204 17440 ?   Ssl  09:07   0:01 /usr/bin/python2 -Es /usr/sbin/tun
root      1009  0.0  0.2 112900 4304 ?    Ss   09:07   0:00 /usr/sbin/sshd -D
root      1010  0.0  0.2 216400 3740 ?    Ssl  09:07   0:00 /usr/sbin/rsyslogd -n
root      1265  0.0  0.1 89708 2120 ?    Ss   09:08   0:00 /usr/libexec/postfix/master -w
postfix    1271  0.0  0.2 89812 4052 ?    S    09:08   0:00 pickup -l -t unix -u
postfix    1272  0.0  0.2 89808 4000 ?    S    09:08   0:00 qmgr -l -t unix -u
pbbhole    1459  0.0  0.1 115672 2300 tty1    Ss   09:30   0:01 -bash
root      1590  0.2  0.0 0 0 ?      S    09:30   0:00 [kworker/0:0]
root      1626  0.0  0.0 0 0 ?      S    09:30   0:00 [kworker/0:2]
root      1629  0.1  0.0 0 0 ?      S    09:55   0:00 [kworker/0:1]
root      1630  0.0  0.0 0 0 ?      S    09:58   0:00 [kworker/0:3]
root      1644  0.0  0.0 123360 724 ?    Ss   10:01   0:00 /usr/sbin/anacron -s
pbbhole    1647  0.0  0.0 155440 1848 tty1    R+   10:01   0:00 ps aux
pbbhole@localhost ~$ pidof
pbbhole@localhost ~$ pgrep
pgrep: no matching criteria specified
Try 'pgrep --help' for more information.
pbbhole@localhost ~$ ps
  PID TTY          TIME CMD
 1459 tty1      00:00:01 bash
 1650 tty1      00:00:00 ps
pbbhole@localhost ~$ pstree
-bash: pstree: command not found
pbbhole@localhost ~$ pidof
pbbhole@localhost ~$ pgrep
-bash: pgrep: command not found
pbbhole@localhost ~$ _

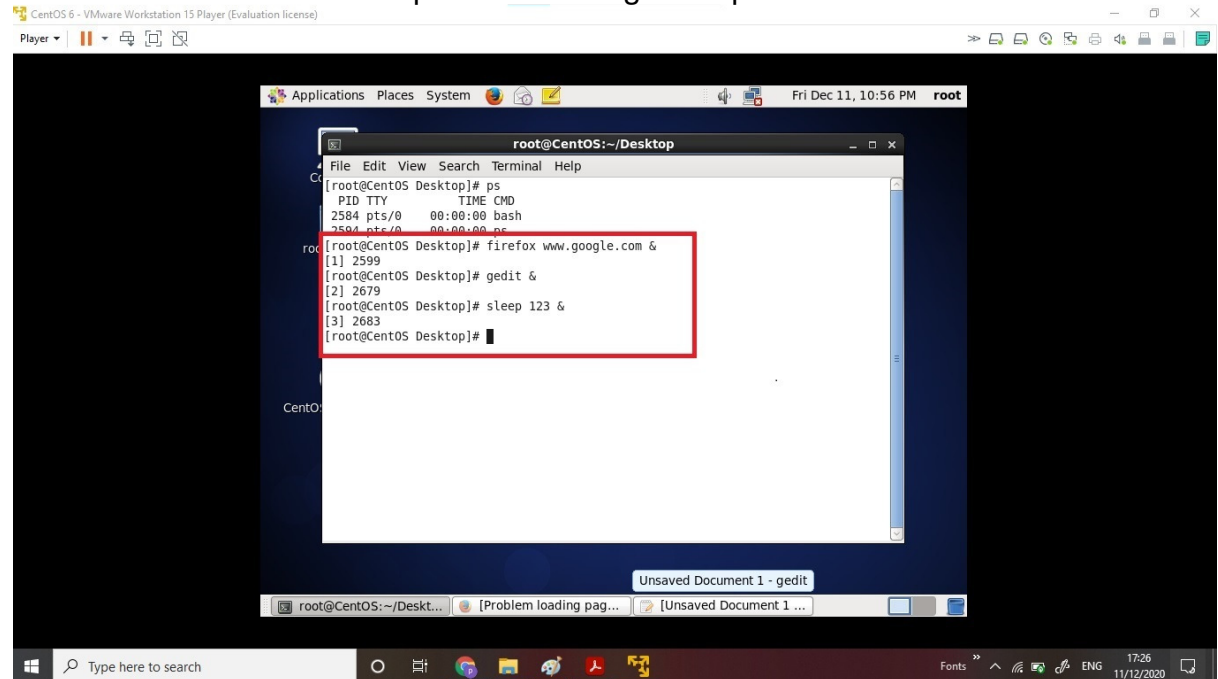
```

```

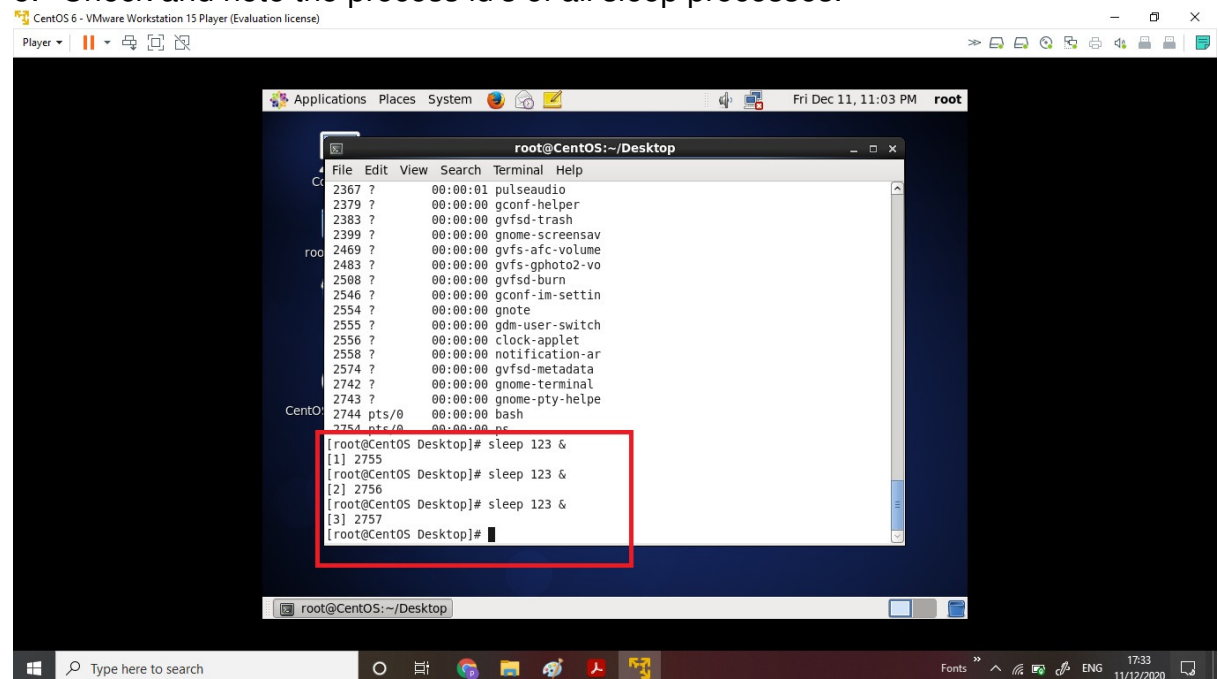
root      505  1 0 10:44 ?    00:00:00 /usr/sbin/lvmtool -f
root      514  1 0 10:44 ?    00:00:03 /usr/lib/systemd/systemd-udevd
root      560  2 0 10:44 ?    00:00:00 [xfs-buf/sdall
root      561  2 0 10:44 ?    00:00:00 [xfs-data/sdall
root      562  2 0 10:44 ?    00:00:00 [xfs-cow/sdall
root      563  2 0 10:44 ?    00:00:00 [xfs-cil/sdall
root      564  2 0 10:44 ?    00:00:00 [xfs-reclaim/sdall
root      566  2 0 10:44 ?    00:00:00 [xfs-log/sdall
root      568  2 0 10:44 ?    00:00:00 [xfs-eofblocks/sl
root      570  2 0 10:44 ?    00:00:00 [xfsaild/sdall
root      632  1 0 10:45 ?    00:00:00 /sbin/auditd
root      655  1 0 10:45 ?    00:00:00 /usr/lib/systemd/systemd-logind
polkitd    657  1 0 10:45 ?    00:00:00 /usr/lib/polkit-1/polkitd --no-debug
root      659  1 0 10:45 ?    00:00:00 /usr/bin/ACAuthService -s
root      660  1 0 10:45 ?    00:00:04 /usr/bin/vmtoolsd
dbus      661  1 0 10:45 ?    00:00:00 /usr/bin/dbus-daemon --system --address=systemd: -
chrony     666  1 0 10:45 ?    00:00:00 /usr/sbin/chronyd
root      691  1 0 10:45 ?    00:00:01 /usr/sbin/crond -n
root      697  1 0 10:45 ?    00:00:01 login -- pbbhole
root      701  1 0 10:45 ?    00:00:04 /usr/bin/python2 -Es /usr/sbin/firewalld --nofork
root      736  1 0 10:45 ?    00:00:00 /usr/sbin/NetworkManager --no-daemon
root      985  1 0 10:45 ?    00:00:01 /usr/bin/python2 -Es /usr/sbin/tuned -l -P
root      989  1 0 10:45 ?    00:00:00 /usr/sbin/sshd -D
root      990  1 0 10:45 ?    00:00:00 /usr/sbin/rsyslogd -n
root      1200  1 0 10:45 ?    00:00:00 /usr/libexec/postfix/master -w
postfix    1207 1200 0 10:45 ?    00:00:00 pickup -l -t unix -u
postfix    1208 1200 0 10:45 ?    00:00:00 qmgr -l -t unix -u
pbbhole    1540 697 0 10:47 tty1    00:00:00 -bash
root      1576  2 0 10:53 ?    00:00:00 [kworker/0:2]
root      1579  2 0 10:53 ?    00:00:00 [kworker/0:0]
pbbhole    1583 1540 0 10:59 tty1    00:00:00 ps -ef
pbbhole@localhost ~$ w
 11:04:02 up 19 min,  2 users,  load average: 0.00, 0.04, 0.12
USER      TTY      FROM          LOGIN@  IDLE   JCPU   PCPU  WHAT
pbbhole   tty1          10:47    2.00s  0.53s  0.01s  w
pbbhole   tty2          11:02    1.46   0.05s  0.05s  -bash
pbbhole@localhost ~$ ps _

```

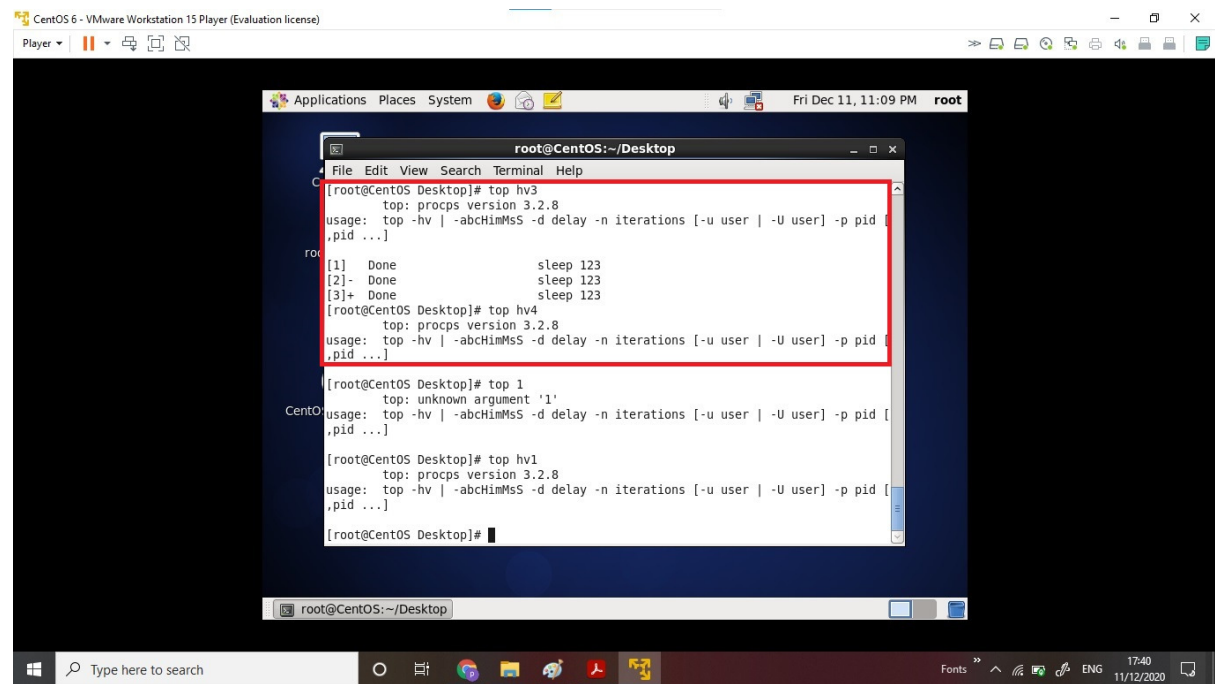
4. Start 3 instances of “sleep 123” as background processes.



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



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



```
CentOS 6 - VMware Workstation 15 Player (Evaluation license)
Fri Dec 11, 11:09 PM root

root@CentOS: ~/Desktop
File Edit View Search Terminal Help
[root@CentOS Desktop]# top hv3
top: procps version 3.2.8
usage: top -hv | -abchmMsS -d delay -n iterations [-u user | -U user] -p pid [
,pid ...]
[1] Done sleep 123
[2]- Done sleep 123
[3]+ Done sleep 123
[root@CentOS Desktop]# top hv4
top: procps version 3.2.8
usage: top -hv | -abchmMsS -d delay -n iterations [-u user | -U user] -p pid [
,pid ...]
[root@CentOS Desktop]# top 1
top: unknown argument '1'
CentOS usage: top -hv | -abchmMsS -d delay -n iterations [-u user | -U user] -p pid [
,pid ...]
[root@CentOS Desktop]# top hv1
top: procps version 3.2.8
usage: top -hv | -abchmMsS -d delay -n iterations [-u user | -U user] -p pid [
,pid ...]
[root@CentOS Desktop]#
```