

```
root@kali:~# #Question 1 - Use ps to search for the "systemd" process by name
root@kali:~# # We can pipe the -grep command to find all the processes related to name "systemd"
root@kali:~#
root@kali:~# ps -e | grep systemd
  1 ?        00:00:07 systemd
267 ?        00:00:01 systemd-journal
285 ?        00:00:01 systemd-udevd
424 ?        00:00:02 systemd-logind
538 ?        00:00:00 systemd
975 ?        00:00:00 systemd
```





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 - Prove that the number of common tangents to two distinct circles is 0

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Thu 14:20

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root@kali: ~x

root@kali: ~x

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root@kali:~#

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424	?	00:00:02	systemd-logind
538	?	00:00:00	systemd
975	?	00:00:00	systemd

root@kali:~#

root@kali:~# # Question 2 - Find out my terminal name. Using my terminal name, find all the processes associated with my terminal.

root@kali:~#

root@kali:~# # We can use ps -e command with grep command to find all the bash shell running

root@kali:~# & from that we can find our terminal pid and name.

bash: syntax error near unexpected token `&'

root@kali:~#

root@kali:~# ps -e | grep bash

1613	pts/1	00:00:00	bash
1980	pts/0	00:00:00	bash

root@kali:~# # we can see from above that my terminal name is pts/0 and its id is 1980.

root@kali:~#

root@kali:~# # Now to find all the processes my terminal is running, again use - grep command.

root@kali:~#

root@kali:~# ps -e | grep pts/0

1980	pts/0	00:00:00	bash
2109	pts/0	00:00:00	ps
2110	pts/0	00:00:00	grep

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answered Sep 16 10 at 14:48

Faisal Feroz

10.7k • 3 • 34 • 49

Doesn't work on Mac because Mac uses BSD and not GNU tools. Anyhow, I am seeing differences. I suppose the BSD version is similar to GNU but also the header of the table is printed? — Alex Sep 16 10 at 14:48





Expanding on @doothane's answer, you can get all the PIDs for a named process with pgrep to do the following.

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Thu 14:25

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root@kali: ~

root@kali: ~

root@kali:~#

root@kali:~# ps -e | grep pts/0

1980 pts/0 00:00:00 bash

2109 pts/0 00:00:00 ps

2110 pts/0 00:00:00 grep

root@kali:~#

root@kali:~# # Question 3- Check and note the pid of my shell. Also note the parent pid of your shell.

root@kali:~#

root@kali:~# # For that we need to find the family tree

root@kali:~# ps -f | grep bash

root 1980 1499 0 14:10 pts/0 00:00:00 bash

root 2136 1980 0 14:22 pts/0 00:00:00 grep bash

root@kali:~#

root@kali:~# # As we can see pid of my shell is 1980 and ppid of my shell is 1499.

root@kali:~# # We can also find it from its pid number.

root@kali:~#

root@kali:~# ps -f 1980

UID PID PPID C STIME TTY STAT TIME CMD

root 1980 1499 0 14:10 pts/0 Ss 0:00 bash

root@kali:~#

root@kali:~# # we can find the name of parent pid by this command.

root@kali:~#

root@kali:~# pstree -hp | grep bash

| -gnome-terminal-(1499)-+-bash(1613)---firefox-esr(1625)-+-Web Content(1665)-+-{Web Content}(1668)










| | -bash(1980)-+-grep(2141)

root@kali:~#

root@kali:~# # We can see the family tree of parent and child processes.

root@kali:~#

root@kali:~#



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Thu 14:28

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root@kali: ~

root@kali: ~

```
root@kali:~# # As we can see pid of my shell is 1980 and ppid of my shell is 1499.
root@kali:~# # We can also find it from its pid number.
root@kali:~# ps -f 1980
UID          PID    PPID  C STIME TTY          STAT       TIME CMD
root         1980    1499  0 14:10 pts/0    topSs | grep 0:00 bash
root@kali:~#
root@kali:~# # we can find the name of parent pid by this command.
root@kali:~# pstree -hp | grep bash
          |
          | -gnome-terminal-(1499) +-bash(1613) ---firefox-esr(1625) +-Web Content(1665) +-{Web Content}(1668)
          |
          | -bash(1980) +-grep(2141)
```

```
root@kali:~#
root@kali:~# # We can see the family tree of parent and child processes.
root@kali:~#
root@kali:~# # Question 4 - Start 3 instances of "sleep 123" as background processes.
root@kali:~# # We can do that by giving command sleep 123 alongwith ampersand symbol to start it in background.
root@kali:~# sleep 123 &
[1] 2171
root@kali:~# sleep 123 &
[2] 2172
root@kali:~# sleep 123 &
[3] 2173
root@kali:~# # Now we can see that 3 instances of "sleep 123" has been created each having different pid.
root@kali:~# # i.e 2171, 2172, 2173
root@kali:~#
root@kali:~#
```

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answered Sep 16 '10 at 14:48

Faisal Feroz

Doesn't work on Mac because Mac uses BSD tools and not GPL tools. And there are some differences. I suppose the "-b" version is similar to "-l 0" but also the header of the table is printed? — Alex Sep 16 '10 at

Expanding on [@dogbane's answer](#), you can get all the PIDs for a named process with `pgrep` to do the following:

`top -p "$(pgrep -d ' ' java)"`

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root@kali: ~

root@kali: ~

1280 ?00:00:00 dconf-service

1288 tty200:00:00 gsd-printer

1330 tty200:00:00 gsd-disk-utilit

1331 tty200:00:01 evolution-alarm

1332 tty200:00:00 tracker-miner-a

1333 tty200:00:00 tracker-miner-f -b | grep java

1339 ?00:00:00 tracker-store

1364 ?00:00:00 evolution-calen

1391 ?00:00:00 evolution-addre

1460 ?00:00:00 gvfsd-trash

1499 ?00:00:27 gnome-terminal-

1613 pts/100:00:00 bash

1625 pts/100:03:37 firefox-esr

1665 pts/100:09:59 Web Content

1746 ?00:00:00 kworker/u4:1-events unbound

1917 ?00:00:00 kworker/1:2-events

1939 pts/100:00:00 Web Content

1980 pts/000:00:00 bash

1985 ?00:00:00 kworker/0:2-events

2015 ?00:00:00 gvfsd-metadata

2027 ?00:00:00 kworker/1:0-events

2039 ?00:00:00 kworker/u4:2-events unbound

2139 ?00:00:00 kworker/0:0-ata_sff

2170 ?00:00:00 kworker/u4:0-events unbound

2171 pts/000:00:00 sleep

2172 pts/000:00:00 sleep

2173 pts/000:00:00 sleep

2209 ?00:00:00 kworker/0:1

2210 pts/000:00:00 ps

root@kali:~# # As we can see that 3 sleep processes are running above.

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answered Sep 16 10:11 14:48

Faisal Feroz

10.7k • 3 • 34 • 49

Mac uses BSD tools and not GPL tools. And there are some differences. I version is similar to "4.0" but also the header of the table is printed? — Alex Sep 16 10:11


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root@kali: ~

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root@kali: ~

root@kali: ~

2170 ? 00:00:00 kworker/u4:0-events_unbound

2209 ? 00:00:00 kworker/0:1-ata_sff

2235 pts/0 00:00:00 ps

root@kali:~# sleep 123 &

[1] 2236

root@kali:~# sleep 123 &

[2] 2237

root@kali:~# sleep 123 &

[3] 2238

root@kali:~# # Question 6 - Display only those 3 sleep processes in top, then quit top.

root@kali:~#

root@kali:~# # We can do that by command - top -b | grep sleep

[1] Done sleep 123

[2]- Done sleep 123

[3]+ Done sleep 123

root@kali:~# So

bash: So: command not found

root@kali:~#

root@kali:~#

root@kali:~#

root@kali:~# sleep 123 &

[1] 2241

root@kali:~# sleep 123 &

[2] 2242

root@kali:~# sleep 123 &

[3] 2243

root@kali:~# # We started the processes. Now see it in real time in top command

root@kali:~#

root@kali:~#

root@kali:~#

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answered Sep 16 '10 at 14:48

10.7k 3 34 49

answered Sep 16 '10 at 14:56

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root@kali: ~

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root@kali: ~

root@kali: ~

root@kali:~#

root@kali:~#

root@kali:~# top -b | grep sleep

Tasks: 184 total, 1 running, 182 sleeping, 0 stopped, 1 zombie

2241 root 20 0 5220 744 680 S 0.0 0.0 0:00.00 sleep

2242 root 20 0 5220 748 684 S 0.0 0.0 0:00.00 sleep

2243 root 20 0 5220 692 624 S 0.0 0.0 0:00.00 sleep

Tasks: 183 total, 1 running, 182 sleeping, 0 stopped, 0 zombie

2241 root 20 0 5220 744 680 S 0.0 0.0 0:00.00 sleep

2242 root 20 0 5220 748 684 S 0.0 0.0 0:00.00 sleep

2243 root 20 0 5220 692 624 S 0.0 0.0 0:00.00 sleep

Tasks: 183 total, 1 running, 182 sleeping, 0 stopped, 0 zombie

2241 root 20 0 5220 744 680 S 0.0 0.0 0:00.00 sleep

2242 root 20 0 5220 748 684 S 0.0 0.0 0:00.00 sleep

2243 root 20 0 5220 692 624 S 0.0 0.0 0:00.00 sleep

Tasks: 183 total, 2 running, 181 sleeping, 0 stopped, 0 zombie

2241 root 20 0 5220 744 680 S 0.0 0.0 0:00.00 sleep

2242 root 20 0 5220 748 684 S 0.0 0.0 0:00.00 sleep

2243 root 20 0 5220 692 624 S 0.0 0.0 0:00.00 sleep

Tasks: 183 total, 1 running, 182 sleeping, 0 stopped, 0 zombie

2241 root 20 0 5220 744 680 S 0.0 0.0 0:00.00 sleep

2242 root 20 0 5220 748 684 S 0.0 0.0 0:00.00 sleep

2243 root 20 0 5220 692 624 S 0.0 0.0 0:00.00 sleep

^C

root@kali:~# # We can see that the 3 sleep commands are running and we have quit the top running after some time.

root@kali:~# # All Done!

[1] Done sleep 123

[2]- Done sleep 123

[3]+ Done sleep 123

root@kali:~#

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