

# Foreground and Background process in Linux

Aishi De

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aishi@Aishi:~$ echo foreground process
```

```
foreground process
```

```
aishi@Aishi:~$ ps
```

```
  PID TTY          TIME CMD
 3420 pts/0    00:00:00 bash
 3435 pts/0    00:00:00 ps
```

```
aishi@Aishi:~$ top
```

```
top - 11:51:49 up 38 min,  1 user,  load average: 0.00, 0.00, 0.00
Tasks:  39 total,   1 running, 38 sleeping,   0 stopped,   0 zombie
%Cpu(s):  0.0 us,   0.0 sy,   0.0 ni,100.0 id,   0.0 wa,   0.0 hi,   0.0 si,   0.0 st
MiB Mem :  7545.2 total,  6782.8 free,   776.2 used,   225.5 buff/cache
MiB Swap:  2048.0 total,  2048.0 free,    0.0 used.  6769.0 avail Mem
```

PID	USER	PR	NI	VIRT	RES	SHR	S	%CPU	%MEM	TIME+	COMMAND
1	root	20	0	21760	13004	9528	S	0.0	0.2	0:03.19	systemd
2	root	20	0	2776	1920	1796	S	0.0	0.0	0:00.01	init-systemd(Ub
8	root	20	0	2776	132	132	S	0.0	0.0	0:00.00	init
54	root	19	-1	66820	19700	18476	S	0.0	0.3	0:00.78	systemd-journal
98	root	20	0	24516	6688	4936	S	0.0	0.1	0:00.38	systemd-udevd
112	root	20	0	152936	200	32	S	0.0	0.0	0:00.00	snappyfuse
123	root	20	0	153068	2740	448	S	0.0	0.0	0:00.00	snappyfuse
130	root	20	0	153068	2752	444	S	0.0	0.0	0:00.00	snappyfuse
139	root	20	0	377360	12380	444	S	0.0	0.2	0:00.40	snappyfuse
144	root	20	0	153200	2236	32	S	0.0	0.0	0:00.01	snappyfuse
153	root	20	0	378152	9000	328	S	0.0	0.1	0:00.54	snappyfuse
156	root	20	0	302992	4668	208	S	0.0	0.1	0:00.02	snappyfuse
163	root	20	0	153068	756	384	S	0.0	0.0	0:00.01	snappyfuse
167	root	20	0	153068	2240	36	S	0.0	0.0	0:00.01	snappyfuse
173	root	20	0	377228	15280	380	S	0.0	0.2	0:02.41	snappyfuse
265	systemd+	20	0	21452	11828	9636	S	0.0	0.2	0:00.18	systemd-resolve
266	systemd+	20	0	91020	6572	5716	S	0.0	0.1	0:00.21	systemd-timesyn
275	root	20	0	4236	2704	2476	S	0.0	0.0	0:00.02	cron
276	message+	20	0	9620	5216	4532	S	0.0	0.1	0:00.51	dbus-daemon
289	root	20	0	17976	8256	7232	S	0.0	0.1	0:00.50	systemd-logind
292	root	20	0	1756096	16076	9488	S	0.0	0.2	0:00.50	wsl-pro-service
308	root	20	0	3160	1196	1108	S	0.0	0.0	0:00.01	agetty
312	root	20	0	3116	1108	1020	S	0.0	0.0	0:00.01	agetty

```
[1]+  Stopped
```

```
top
```

```
aishi@Aishi:~$ echo background process
```

```
background process
```

```

aishi@Aishi:~$ jobs
[1]+  Stopped                  top
aishi@Aishi:~$ ps -e
    PID TTY          TIME CMD
    1 ?            00:00:03 systemd
    2 ?            00:00:00 init-systemd(Ub
    8 ?            00:00:00 init
   54 ?            00:00:00 systemd-journal
   98 ?            00:00:00 systemd-udev
  112 ?            00:00:00 snapfuse
  123 ?            00:00:00 snapfuse
  130 ?            00:00:00 snapfuse
  139 ?            00:00:00 snapfuse
  144 ?            00:00:00 snapfuse
  153 ?            00:00:00 snapfuse
  156 ?            00:00:00 snapfuse
  163 ?            00:00:00 snapfuse
  167 ?            00:00:00 snapfuse
  173 ?            00:00:02 snapfuse
  265 ?            00:00:00 systemd-resolve
  266 ?            00:00:00 systemd-timesyn
  275 ?            00:00:00 cron
  276 ?            00:00:00 dbus-daemon
  289 ?            00:00:00 systemd-logind
  292 ?            00:00:00 wsl-pro-service

```

```

aishi@Aishi:~$ ps -ef
UID          PID    PPID  C STIME TTY          TIME CMD
root          1        0  0 11:13 ?            00:00:03 /usr/lib/sys
root          2        1  0 11:13 ?            00:00:00 /init
root          8        2  0 11:13 ?            00:00:00 plan9 --cont
root         54        1  0 11:13 ?            00:00:00 /usr/lib/sys
root         98        1  0 11:13 ?            00:00:00 /usr/lib/sys
root        112        1  0 11:13 ?            00:00:00 snapfuse /va
root        123        1  0 11:13 ?            00:00:00 snapfuse /va
root        130        1  0 11:13 ?            00:00:00 snapfuse /va
root        139        1  0 11:13 ?            00:00:00 snapfuse /va
root        144        1  0 11:13 ?            00:00:00 snapfuse /va
root        153        1  0 11:13 ?            00:00:00 snapfuse /va
root        156        1  0 11:13 ?            00:00:00 snapfuse /va
root        163        1  0 11:13 ?            00:00:00 snapfuse /va
root        167        1  0 11:13 ?            00:00:00 snapfuse /va
root        173        1  0 11:13 ?            00:00:02 snapfuse /va
systemd+     265        1  0 11:13 ?            00:00:00 /usr/lib/sys
systemd+     266        1  0 11:13 ?            00:00:00 /usr/lib/sys

```

```

aishi@Aishi:~$ ps -u
USER      PID %CPU %MEM    VSZ   RSS TTY      STAT START   TIME COMMAND
aishi     567  0.0  0.0  6072  5136 pts/1    S+   11:13   0:00 -bash
aishi    3420  0.0  0.0  6072  5316 pts/0    Ss   11:51   0:00 -bash
aishi    3436  0.0  0.0  9272  5368 pts/0    T    11:51   0:00 top
aishi    3443  0.0  0.0  8280  4248 pts/0    R+   11:53   0:00 ps -u

```

```

aishi@Aishi:~$ kill 3436

```