

su - user1

```
root@eltex-practice2-pg1-v24:~# su - user1
Warning: your password will expire in 3 days.
user1@eltex-practice2-pg1-v24:~$ |
```

ps -eo pid,comm,nlwp | awk '{if (\$3 > 1) count++} END {print count - 1}'

```
user1@eltex-practice2-pg1-v24:~$ ps -eo pid,comm,nlwp | awk '{if ($3 > 1) count++} END {print count - 1}'
10
```

top

```
top - 06:55:16 up 6 days, 18:42, 1 user, load average: 0.00, 0.00, 0.00
Tasks: 111 total, 1 running, 110 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 : 1868.0 total, 260.5 free, 510.1 used, 1389.5 buff/cache
MiB Swap: 3185.0 total, 3184.7 free, 0.3 used. 1357.9 avail Mem

  PID USER      PR  NI   VIRT   RES   SHR  S  %CPU  %MEM     TIME+ COMMAND
    1 root        20   0   22152  13236  9396  S   0.0   0.7   0:08.80 systemd
    2 root        20   0         0     0     0  S   0.0   0.0   0:00.11 kthreadd
    3 root        20   0         0     0     0  S   0.0   0.0   0:00.00 pool_workqueue_release
    4 root         0 -20     0     0     0  I   0.0   0.0   0:00.00 kworker/R-rcu_g
    5 root         0 -20     0     0     0  I   0.0   0.0   0:00.00 kworker/R-rcu_p
    6 root         0 -20     0     0     0  I   0.0   0.0   0:00.00 kworker/R-slub_
    7 root         0 -20     0     0     0  I   0.0   0.0   0:00.00 kworker/R-netns
   12 root         0 -20     0     0     0  I   0.0   0.0   0:00.00 kworker/R-mm_pe
   13 root        20   0         0     0     0  I   0.0   0.0   0:00.00 rcu_tasks_kthread
   14 root        20   0         0     0     0  I   0.0   0.0   0:00.00 rcu_tasks_rude_kthread
   15 root        20   0         0     0     0  I   0.0   0.0   0:00.00 rcu_tasks_trace_kthread
   16 root        20   0         0     0     0  S   0.0   0.0   0:00.11 ksoftirqd/0
   17 root        20   0         0     0     0  I   0.0   0.0   0:04.73 rcu_preempt
   18 root        rt   0         0     0     0  S   0.0   0.0   0:02.15 migration/0
   19 root       -51   0         0     0     0  S   0.0   0.0   0:00.00 idle_inject/0
   20 root        20   0         0     0     0  S   0.0   0.0   0:00.00 cpuhp/0
   21 root        20   0         0     0     0  S   0.0   0.0   0:00.00 cpuhp/1
   22 root       -51   0         0     0     0  S   0.0   0.0   0:00.00 idle_inject/1
```

<f>

\*sorting with arrows and space\*

```
Fields Management for window 1:Def, whose current sort field is %CPU
Navigate with Up/Dn, Right selects for move then <Enter> or Left commits,
'd' or <Space> toggles display, 's' sets sort. Use 'q' or <Esc> to end!

* PID      = Process Id          TTY      = Controlling Tty    vMj      = Major Faults del  PSfd     = Proportion File,
* USER     = Effective User N  TPGID    = Tty Process Grp    vMn      = Minor Faults del  PSsh     = Proportion Shrd,
* RUSER     = Real User Name   SID      = Session Id        USED     = Res+Swap Size (K  USS      = Unique RSS, KiB
* PR        = Priority         nTH      = Number of Thread  nsIPC    = IPC namespace In  ioR      = I/O Bytes Read
* NI        = Nice Value       P        = Last Used Cpu (S nsMNT    = MNT namespace In  ioRop    = I/O Read Operati
* VIRT      = Virtual Image (K  TIME     = CPU Time       nsNET    = NET namespace In  ioW      = I/O Bytes Writte
* RES       = Resident Size (K  SWAP     = Swapped Size (Ki nsPID    = PID namespace In  ioWop    = I/O Write Operat
* SHR       = Shared Memory (K  CODE     = Code Size (KiB) nsUSER   = USER namespace I  AGID     = Autogroup Identi
* S         = Process Status   DATA    = Data+Stack (KiB)  nsUTS    = UTS namespace In  AGNI     = Autogroup Nice V
* %CPU      = CPU Usage        nMaj     = Major Page Fault  LXC      = LXC container na  STARTED  = Start Time from
* %MEM      = Memory Usage (RE  nMin     = Minor Page Fault  RSan     = RES Anonymous (K  ELAPSED  = Elapsed Running
* TIME+     = CPU Time, hundre  nDRT     = Dirty Pages Coun  RSfd     = RES File-based ( %CUU     = CPU Utilization
* COMMAND   = Command Name/Lin WCHAN    = Sleeping in Func  RSlk     = RES Locked (KiB) %CUC     = Utilization + ch
* PPID      = Parent Process p  Flags    = Task Flags <sche  RSsh     = RES Shared (KiB) nsCGROUP  = CGRP namespace I
* UID       = Effective User I  CGROUPS  = Control Groups   CGNAME    = Control Group na  nsTIME   = TIME namespace I
* RUID      = Real User Id     SUPGIDS  = Supp Groups IDs    NU        = Last Used NUMA n
* SUID      = Saved User Id     SUPGRPS  = Supp Groups Name  LOGID     = Login User Id
* SUSER     = Saved User Name   TGID     = Thread Group Id  EXE       = Executable Path
* GID       = Group Id         OOMa     = OOMEM Adjustment  RSS       = Res Mem (smaps),
* GROUP     = Group Name       OOMs     = OOMEM Score curr  PSS       = Proportion RSS,
* PGRP      = Process Group Id  ENVIRON  = Environment vars   PSan      = Proportion Anon,
```

<q>

```
top - 06:56:06 up 6 days, 18:43, 1 user, load average: 0.00, 0.00, 0.00
Tasks: 111 total, 1 running, 110 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 : 1868.0 total, 260.3 free, 510.3 used, 1389.5 buff/cache
MiB Swap: 3185.0 total, 3184.7 free, 0.3 used, 1357.7 avail Mem
```

PID	USER	RUSER	PR	NI	S	%CPU	%MEM	TIME+	COMMAND
1	root	root	20	0	S	0.0	0.7	0:08.80	systemd
2	root	root	20	0	S	0.0	0.0	0:00.11	kthreadd
3	root	root	20	0	S	0.0	0.0	0:00.00	pool_workqueue_release
4	root	root	0	-20	I	0.0	0.0	0:00.00	kworker/R-rcu_g
5	root	root	0	-20	I	0.0	0.0	0:00.00	kworker/R-rcu_p
6	root	root	0	-20	I	0.0	0.0	0:00.00	kworker/R-slub_
7	root	root	0	-20	I	0.0	0.0	0:00.00	kworker/R-netns
12	root	root	0	-20	I	0.0	0.0	0:00.00	kworker/R-mm_pe
13	root	root	20	0	I	0.0	0.0	0:00.00	rcu_tasks_kthread
14	root	root	20	0	I	0.0	0.0	0:00.00	rcu_tasks_rude_kthread
15	root	root	20	0	I	0.0	0.0	0:00.00	rcu_tasks_trace_kthread
16	root	root	20	0	S	0.0	0.0	0:00.11	ksoftirqd/0
17	root	root	20	0	I	0.0	0.0	0:04.73	rcu_preempt
18	root	root	rt	0	S	0.0	0.0	0:02.15	migration/0
19	root	root	-51	0	S	0.0	0.0	0:00.00	idle_inject/0
20	root	root	20	0	S	0.0	0.0	0:00.00	cpuhp/0
21	root	root	20	0	S	0.0	0.0	0:00.00	cpuhp/1
22	root	root	-51	0	S	0.0	0.0	0:00.00	idle_inject/1

--

passwd

```
user1@eltex-practice2-pg1-v24:~$ passwd
Changing password for user1.
Current password: █
```

--

<u user1>

```
top - 06:56:49 up 6 days, 18:44, 2 users, load average: 0.00, 0.00, 0.00
Tasks: 116 total, 1 running, 115 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 : 1868.0 total, 240.9 free, 529.7 used, 1389.5 buff/cache
MiB Swap: 3185.0 total, 3184.7 free, 0.3 used, 1338.3 avail Mem
```

PID	USER	RUSER	PR	NI	S	%CPU	%MEM	TIME+	COMMAND
35640	user1	user1	20	0	R	0.2	0.3	0:00.05	top
35624	user1	user1	20	0	S	0.0	0.3	0:00.01	bash
35752	user1	user1	20	0	S	0.0	0.3	0:00.01	bash

<L passwd>

```
top - 06:57:13 up 6 days, 18:44, 2 users, load average: 0.00, 0.00, 0.00
Tasks: 116 total, 1 running, 115 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 : 1868.0 total, 240.9 free, 529.7 used, 1389.5 buff/cache
MiB Swap: 3185.0 total, 3184.7 free, 0.3 used, 1338.3 avail Mem
```

PID	USER	RUSER	PR	NI	S	%CPU	%MEM	TIME+	COMMAND
35752	user1	user1	20	0	S	0.0	0.3	0:00.01	bash

<k enter 15>

<k enter 2>

<k enter 3>

<k enter 9>

```
user1@eltex-practice2-pg1-v24:~$ passwd
Changing password for user1.
Current password: Killed
root@eltex-practice2-pg1-v24:~#
```

vim ~/file\_task3.txt

<ctrl-z>

```
user1@eltex-practice2-pg1-v24:~$ vim ~/file_task3.txt

[1]+  Stopped                  vim ~/file_task3.txt
user1@eltex-practice2-pg1-v24:~$ |
```

sleep 600

<ctrl-z>

```
user1@eltex-practice2-pg1-v24:~$ sleep 600
^Z
[2]+  Stopped                  sleep 600
```

Jobs

```
user1@eltex-practice2-pg1-v24:~$ jobs
[1]-  Stopped                  vim ~/file_task3.txt
[2]+  Stopped                  sleep 600
```

bg %2

```
user1@eltex-practice2-pg1-v24:~$ bg %2
[2]+  sleep 600 &
```

ps -eo pid,comm,nice | grep 'sleep'

renice 10 <pid of sleep>

ps -eo pid,comm,nice | grep 'sleep'

```
user1@eltex-practice2-pg1-v24:~$ ps -eo pid,comm,nice | grep 'sleep'
 35766 sleep          0
user1@eltex-practice2-pg1-v24:~$ renice 10 35766
35766 (process ID) old priority 0, new priority 10
user1@eltex-practice2-pg1-v24:~$ ps -eo pid,comm,nice | grep 'sleep'
 35766 sleep          10
```

fg %1

<:wq>

```
user1@eltex-practice2-pg1-v24:~$ fg %1
vim ~/file_task3.txt
user1@eltex-practice2-pg1-v24:~$ |
```

kill -15 <pid of sleep>

trap 'echo "Меня голыми руками не возьмешь!"' SIGINT SIGQUIT

<ctrl-c>

<ctrl-\>

```
user1@eltex-practice2-pg1-v24:~$ trap 'echo "Меня голыми руками не возьмешь!"' SIGINT SIGQUIT
[2]+  Terminated                  sleep 600
Меня голыми руками не возьмешь!$ ^C
Меня голыми руками не возьмешь!$ ^\
```