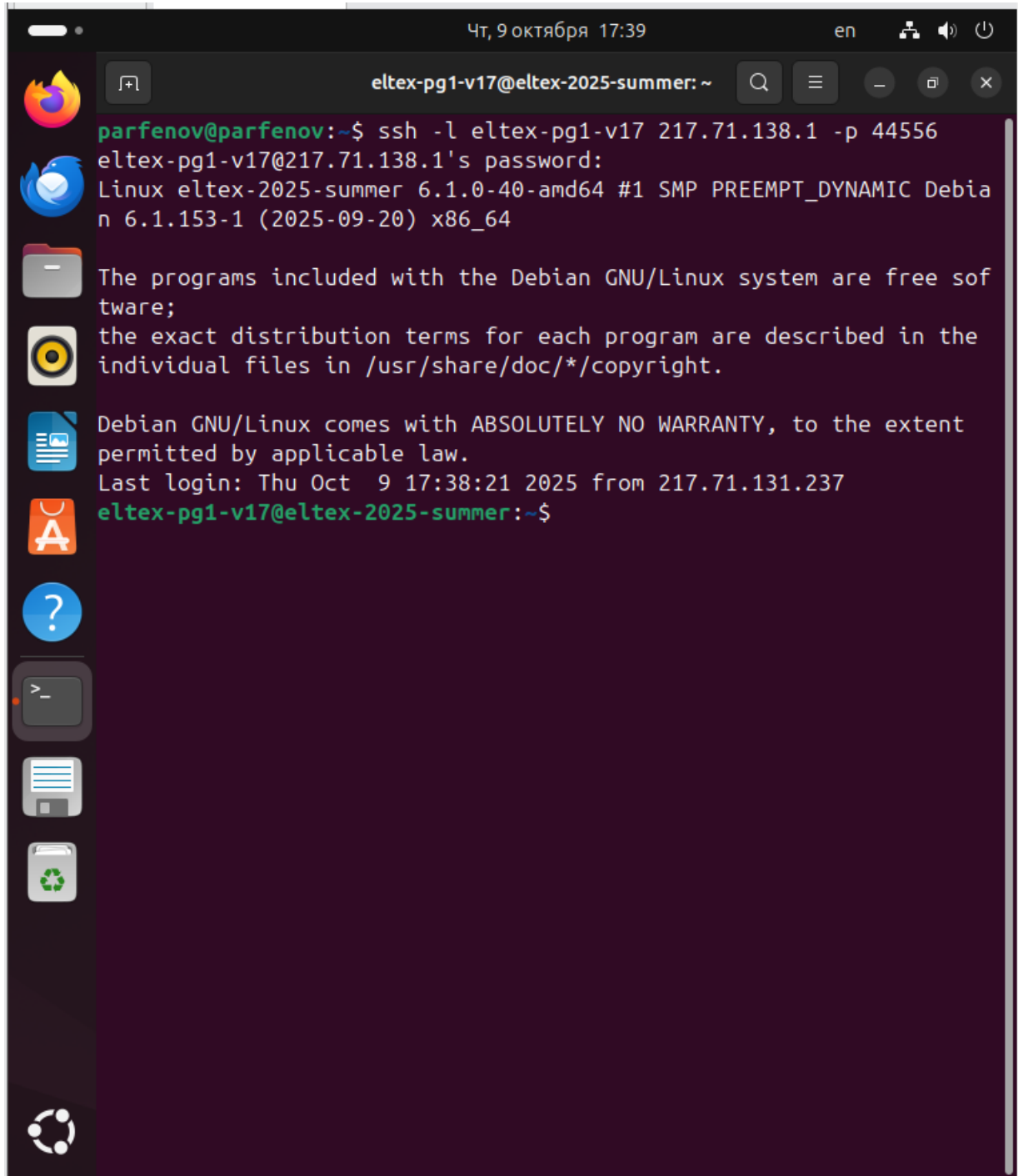


1)Подключение через ssh



The screenshot shows a Linux desktop environment with a terminal window open. The terminal title bar reads "eltex-pg1-v17@eltex-2025-summer: ~". The terminal content shows the execution of an SSH command from a host named "parfenov" to a remote host "eltex-pg1-v17" at IP "217.71.138.1" with port "44556". The password is entered, and the terminal displays the remote system's banner, which includes the Linux version "6.1.0-40-amd64", SMP, PREEMPT\_DYNAMIC, Debian version "6.1.153-1 (2025-09-20)", and architecture "x86\_64". It also displays the Debian GNU/Linux free software notice and warranty disclaimer. The last login is recorded as "Thu Oct 9 17:38:21 2025 from 217.71.131.237". The terminal prompt then changes to "eltex-pg1-v17@eltex-2025-summer:~\$". The desktop background is dark purple, and the left sidebar contains icons for Firefox, Telegram, Files, Music, Videos, Applications, a question mark, a terminal, a document, a folder, and a circular arrow icon.

```
eltex-pg1-v17@eltex-2025-summer: ~
parfenov@parfenov:~$ ssh -l eltex-pg1-v17 217.71.138.1 -p 44556
eltex-pg1-v17@217.71.138.1's password:
Linux eltex-2025-summer 6.1.0-40-amd64 #1 SMP PREEMPT_DYNAMIC Debia
n 6.1.153-1 (2025-09-20) x86_64

The programs included with the Debian GNU/Linux system are free sof
tware;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.
Last login: Thu Oct 9 17:38:21 2025 from 217.71.131.237
eltex-pg1-v17@eltex-2025-summer:~$
```

2)

```
eltex-pg1-v17@eltex-2025-summer: ~  
17:45:22 up 2:07, 30 users, load average: 0.01, 0.01, 0.00  
USER      TTY      FROM            LOGIN@   IDLE   JCPU   PCPU   WHAT  
tech      pts/0    37.193.179.176  15:39   1:04m  0.02s  0.02s  sshd: t  
eltex-pg  pts/1    :pts/2:S.0      17:45   7:22   0.00s  ?      SCREEN  
eltex-pg  pts/2    217.71.131.234  17:26   9:00s  0.01s  ?      screen  
eltex-pg  pts/3    178.130.143.197  17:28   17:13  0.00s  ?      -bash  
eltex-pg  pts/4    217.71.139.234  17:29   1:43   0.00s  ?      -bash  
eltex-pg  pts/5    176.59.145.254  17:30   14:56  0.00s  ?      -bash  
eltex-pg  pts/6    217.71.139.234  17:37   2:32   0.00s  ?      -bash  
eltex-pg  pts/8    :pts/25:S.1     17:45   2:00s  0.02s  0.02s  w  
eltex-pg  pts/9    217.71.131.234  17:43   1:54   0.00s  ?      -bash  
eltex-pg  pts/10   217.71.139.234  17:34   11:07  0.00s  ?      -bash  
eltex-pg  pts/11   217.71.131.234  17:34   11:05  0.00s  ?      -bash  
eltex-pg  pts/12   :pts/2:S.1      17:45   10:33  0.00s  ?      /usr/bi  
eltex-pg  pts/13   :pts/19:S.1     17:44   26:00s 0.00s  ?      /usr/bi  
eltex-pg  pts/14   :pts/2:S.2      17:45   10:04  0.00s  ?      /usr/bi  
eltex-pg  pts/15   185.210.141.98  17:40   2:17   0.01s  0.01s  -bash  
eltex-pg  pts/16   :pts/2:S.3      17:45   5:00s  0.00s  ?      /usr/bi  
eltex-pg  pts/17   91.79.222.224   17:38   7:13   0.00s  ?      -bash  
eltex-pg  pts/18   178.178.206.36  17:38   7:16   0.00s  ?      -bash  
eltex-pg  pts/19   89.113.141.142  17:38   1:00s  0.01s  ?      screen  
eltex-pg  pts/20   176.59.146.129  17:38   7:06   0.00s  ?      -bash  
eltex-pg  pts/21   217.71.139.234  17:38   1:04   0.01s  0.01s  -bash  
eltex-pg  pts/22   217.71.131.234  17:40   5:03   0.00s  ?      -bash  
eltex-pg  pts/23   217.71.131.237  17:39   56:00s 0.00s  ?      screen  
eltex-pg  pts/25   217.71.131.234  17:39   2:00s  0.01s  ?      screen  
eltex-pg  pts/27   176.59.146.129  17:39   1:06   0.00s  ?      -bash  
eltex-pg  pts/28   176.59.145.254  17:43   1:03   0.00s  ?      screen  
eltex-pg  pts/29   :pts/25:S.0     17:43   2:00s  0.00s  ?      SCREEN  
eltex-pg  pts/30   :pts/23:S.0     17:44   56:00s 0.00s  ?      SCREEN  
eltex-pg  pts/31   :pts/28:S.0     17:44   1:03   0.00s  ?      SCREEN  
eltex-pg  pts/33   217.71.131.237  17:45   11:00s 0.00s  ?      -bash  
eltex-pg1-v17@eltex-2025-summer:~$
```

После отключимся от сессии при помощи exit

### 3)Запуск команды top

```
Чт, 9 октября 17:48  
eltex-pg1-v17@eltex-2025-summer: ~  
top - 17:48:33 up 2:10, 32 users, load average: 0.05, 0.02, 0.00  
Tasks: 247 total, 1 running, 246 sleeping, 0 stopped, 0 zombie  
%Cpu(s): 0.1 us, 0.1 sy, 0.0 ni, 99.2 id, 0.6 wa, 0.0 hi, 0.1 st, 0.0 st  
MiB Mem : 3914.7 total, 3429.9 free, 511.0 used, 183.0 buff/cache  
MiB Swap: 976.0 total, 976.0 free, 0.0 used, 3403.7 avail Mem  
  
  PID USER      PR  NI    VIRT    RES    SHR  S  %CPU  %MEM    TIME+  COMMAND  
2460 eltex-p+ 20   0   11652   5452   3300  S   0.3   0.1   0:00.22 top  
2790 eltex-p+ 20   0  11632   5492  3344  R   0.3   0.1   0:00.01 top  
1 root      20   0   168244 12848  9184  S   0.0   0.3   0:00.62 systemd  
2 root      20   0      0      0      0  S   0.0   0.0   0:00.00 kthreadd  
3 root      0 -20      0      0      0  I   0.0   0.0   0:00.00 rcu_gp  
4 root      0 -20      0      0      0  I   0.0   0.0   0:00.00 rcu_par_gp  
5 root      0 -20      0      0      0  I   0.0   0.0   0:00.00 slub_flushwq  
6 root      0 -20      0      0      0  I   0.0   0.0   0:00.00 netns  
10 root     0 -20      0      0      0  I   0.0   0.0   0:00.00 mm_percpu_wq  
11 root     20   0      0      0      0  I   0.0   0.0   0:00.00 rcu_tasks_kthread  
12 root     20   0      0      0      0  I   0.0   0.0   0:00.00 rcu_tasks_rude_kthread  
13 root     20   0      0      0      0  I   0.0   0.0   0:00.00 rcu_tasks_trace_kthread  
14 root     20   0      0      0      0  S   0.0   0.0   0:00.01 ksoftirqd/0  
15 root     20   0      0      0      0  I   0.0   0.0   0:00.05 rcu_preempt  
16 root     rt   0      0      0      0  S   0.0   0.0   0:00.02 migration/0  
18 root     20   0      0      0      0  S   0.0   0.0   0:00.00 cpuhp/0  
19 root     20   0      0      0      0  S   0.0   0.0   0:00.00 cpuhp/1  
20 root     rt   0      0      0      0  S   0.0   0.0   0:00.23 migration/1  
21 root     20   0      0      0      0  S   0.0   0.0   0:00.00 ksoftirqd/1  
23 root     0 -20      0      0      0  I   0.0   0.0   0:00.00 kworker/1:0H-events_highpri  
24 root     20   0      0      0      0  S   0.0   0.0   0:00.00 cpuhp/2  
25 root     rt   0      0      0      0  S   0.0   0.0   0:00.23 migration/2  
26 root     20   0      0      0      0  S   0.0   0.0   0:00.00 ksoftirqd/2  
28 root     0 -20      0      0      0  I   0.0   0.0   0:00.00 kworker/2:0H-events_highpri  
29 root     20   0      0      0      0  S   0.0   0.0   0:00.00 cpuhp/3  
30 root     rt   0      0      0      0  S   0.0   0.0   0:00.23 migration/3  
31 root     20   0      0      0      0  S   0.0   0.0   0:00.00 ksoftirqd/3  
33 root     0 -20      0      0      0  I   0.0   0.0   0:00.00 kworker/3:0H-events_highpri  
38 root     20   0      0      0      0  S   0.0   0.0   0:00.00 kdevtmpfs
```

3,4)

При помощи ctr а A переименуем сессию в top, затем при помощи ctrl а “ выведем список активных screen терминалов.

```
Чт, 9 октября 17:50  
eltex-pg1-v17@eltex-2025-summer: ~  
Num Name  
0 bash  
1 top  
Flags  
$  
$
```

5)

```
top - 18:01:25 up 2:23, 58 users, load average: 0.00, 0.02, 0.00
Threads: 310 total, 1 running, 306 sleeping, 3 stopped, 0 zombie
%Cpu(s): 0.2 us, 0.2 sy, 0.0 ni, 99.3 id, 0.0 wa, 0.0 hi, 0.2 si, 0.0 st
MiB Mem : 3914.7 total, 3327.1 free, 603.9 used, 197.4 buff/cache
MiB Swap: 976.0 total, 976.0 free, 0.0 used, 3310.8 avail Mem

  PID USER      PR  NI    VIRT    RES    SHR  S  %CPU  %MEM    TIME+  COMMAND
    2 root        20   0       0       0       0  S   0.0   0.0   0:00.00 kthreadd
    3 root        0 -20     0       0       0  I   0.0   0.0   0:00.00 rcu_gp
    4 root        0 -20     0       0       0  I   0.0   0.0   0:00.00 rcu_par_gp
    5 root        0 -20     0       0       0  I   0.0   0.0   0:00.00 slub_flushwq
    6 root        0 -20     0       0       0  I   0.0   0.0   0:00.00 netns
   10 root        0 -20     0       0       0  I   0.0   0.0   0:00.00 mm_percpu_wq
   11 root        20   0       0       0       0  I   0.0   0.0   0:00.00 rcu_tasks_kthread
   12 root        20   0       0       0       0  I   0.0   0.0   0:00.00 rcu_tasks_rude_kthread
   13 root        20   0       0       0       0  I   0.0   0.0   0:00.00 rcu_tasks_trace_kthread
   14 root        20   0       0       0       0  S   0.0   0.0   0:00.02 ksoftirqd/0
   15 root        20   0       0       0       0  I   0.0   0.0   0:00.10 rcu_preempt
   16 root        rt   0       0       0       0  S   0.0   0.0   0:00.02 migration/0
   18 root        20   0       0       0       0  S   0.0   0.0   0:00.00 cpuhp/0
   19 root        20   0       0       0       0  S   0.0   0.0   0:00.00 cpuhp/1
   20 root        rt   0       0       0       0  S   0.0   0.0   0:00.23 migration/1
   21 root        20   0       0       0       0  S   0.0   0.0   0:00.01 ksoftirqd/1
   23 root        0 -20     0       0       0  I   0.0   0.0   0:00.00 kworker/1:0H-events_highpri
   24 root        20   0       0       0       0  S   0.0   0.0   0:00.00 cpuhp/2
   25 root        rt   0       0       0       0  S   0.0   0.0   0:00.23 migration/2
   26 root        20   0       0       0       0  S   0.0   0.0   0:00.01 ksoftirqd/2
   28 root        0 -20     0       0       0  I   0.0   0.0   0:00.00 kworker/2:0H-events_highpri
   29 root        20   0       0       0       0  S   0.0   0.0   0:00.00 cpuhp/3
   30 root        rt   0       0       0       0  S   0.0   0.0   0:00.23 migration/3
   31 root        20   0       0       0       0  S   0.0   0.0   0:00.02 ksoftirqd/3
   33 root        0 -20     0       0       0  I   0.0   0.0   0:00.00 kworker/3:0H-events_highpri
   38 root        20   0       0       0       0  S   0.0   0.0   0:00.00 kdevtmpfs
   39 root        0 -20     0       0       0  I   0.0   0.0   0:00.00 inet_frag_wq
   40 root        20   0       0       0       0  S   0.0   0.0   0:00.00 kauditd
   41 root        20   0       0       0       0  S   0.0   0.0   0:00.00 khungtaskd
```

6)

```
Чт, 9 октября 18:02
eltex-pg1-v17@eltex-2025-summer: ~
%Cpu(s): 0.2 us, 0.1 sy, 0.0 ni, 99.8 id, 0.0 wa, 0.0 hi, 0.0 si, 0.0 st
MiB Mem : 3914.7 total, 3320.8 free, 610.1 used, 197.5 buff/cache
MiB Swap: 976.0 total, 976.0 free, 0.0 used, 3304.5 avail Mem

  PID USER      PR  NI    VIRT    RES    SHR  S  %CPU  %MEM    TIME+  COMMAND
 3741 eltex-p+  20   0   11680    5340   3180  S   0.3   0.1   0:00.01 top
    1 root        20   0  168244  12852   9184  S   0.0   0.3   0:00.60 systemd
    2 root        20   0       0       0       0  S   0.0   0.0   0:00.00 kthreadd
    3 root        0 -20     0       0       0  I   0.0   0.0   0:00.00 rcu_gp
    4 root        0 -20     0       0       0  I   0.0   0.0   0:00.00 rcu_par_gp
    5 root        0 -20     0       0       0  I   0.0   0.0   0:00.00 slub_flushwq
    6 root        0 -20     0       0       0  I   0.0   0.0   0:00.00 netns
   10 root        0 -20     0       0       0  I   0.0   0.0   0:00.00 mm_percpu_wq
   11 root        20   0       0       0       0  I   0.0   0.0   0:00.00 rcu_tasks_kthread
   12 root        20   0       0       0       0  I   0.0   0.0   0:00.00 rcu_tasks_rude_kthread
   13 root        20   0       0       0       0  I   0.0   0.0   0:00.00 rcu_tasks_trace_kthread
   14 root        20   0       0       0       0  S   0.0   0.0   0:00.02 ksoftirqd/0
   15 root        20   0       0       0       0  I   0.0   0.0   0:00.10 rcu_preempt
   16 root        rt   0       0       0       0  S   0.0   0.0   0:00.02 migration/0
   18 root        20   0       0       0       0  S   0.0   0.0   0:00.00 cpuhp/0
   19 root        20   0       0       0       0  S   0.0   0.0   0:00.00 cpuhp/1
   20 root        rt   0       0       0       0  S   0.0   0.0   0:00.23 migration/1
   21 root        20   0       0       0       0  S   0.0   0.0   0:00.01 ksoftirqd/1
   23 root        0 -20     0       0       0  I   0.0   0.0   0:00.00 kworker/1:0H-events_highpri
   24 root        20   0       0       0       0  S   0.0   0.0   0:00.00 cpuhp/2
   25 root        rt   0       0       0       0  S   0.0   0.0   0:00.23 migration/2
   26 root        20   0       0       0       0  S   0.0   0.0   0:00.01 ksoftirqd/2
   28 root        0 -20     0       0       0  I   0.0   0.0   0:00.00 kworker/2:0H-events_highpri
   29 root        20   0       0       0       0  S   0.0   0.0   0:00.00 cpuhp/3
   30 root        rt   0       0       0       0  S   0.0   0.0   0:00.23 migration/3
   31 root        20   0       0       0       0  S   0.0   0.0   0:00.02 ksoftirqd/3
   33 root        0 -20     0       0       0  I   0.0   0.0   0:00.00 kworker/3:0H-events_highpri
   38 root        20   0       0       0       0  S   0.0   0.0   0:00.00 kdevtmpfs
   39 root        0 -20     0       0       0  I   0.0   0.0   0:00.00 inet_frag_wq
eltex-pg1-v17@eltex-2025-summer: $ screen
eltex-pg1-v17@eltex-2025-summer: $
```

```
eltex-pg1-v17@eltex-2025-summer: ~
Num Name                               Flags
0 bash                                S
1 top                                 S
2 bash                                S
```

7,8)

```
Чт, 9 октября 18:05
eltex-pg1-v17@eltex-2025-summer: ~
Every 2.0s: /usr/bin/vmstat                               eltex-2025-summer: Thu Oct 9 18:05:03 2025

procs -----memory----- --swap-- -----io----- -system-- -----cpu-----
 r b swpd free buff cache si so bi bo in cs us sy id wa st
 1 0  0 3391276 20212 182464 0 0  3  4 16 23 0 0 100 0 0
```

9)

```
eltex-pg1-v17@eltex-2025-summer: ~  
Every 2.0s: /usr/bin/vmstat                               eltex-2025-summer: Thu Oct 9 18:05:46 2025  
  
procs -----memory-----swap-----io-----system-----cpu-----  
r b swpd free buff cache si so bi bo in cs us sy id wa st  
1 0 0 3379476 20244 182480 0 0 3 4 16 23 0 0 100 0 0  
  
Set window's title to: vmstat
```

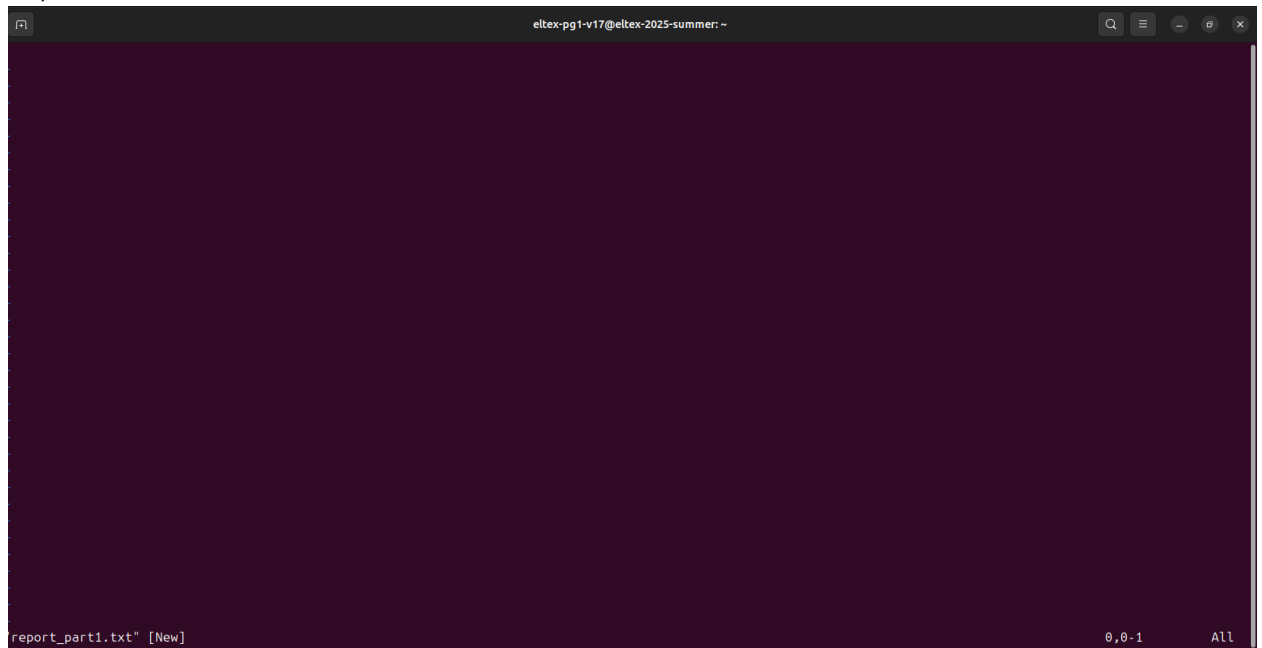
10)

```
Чт, 9 октября 18:06  
eltex-pg1-v17@eltex-2025-summer: ~  
  
Num Name Flags  
0 bash $  
1 top $  
2 vmstat $
```

11)

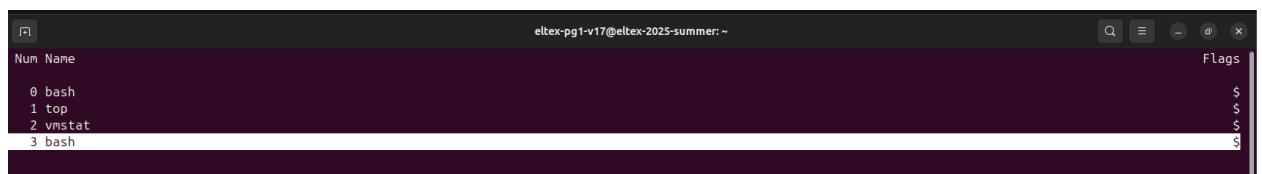
```
eltex-pg1-v17@eltex-2025-summer: ~  
top - 18:08:52 up 2:31, 56 users, load average: 0.12, 0.06, 0.01  
Tasks: 337 total, 1 running, 332 sleeping, 4 stopped, 0 zombie  
%Cpu(s): 0.0 us, 0.0 sy, 0.0 ni,100.0 id, 0.0 wa, 0.0 hi, 0.0 si, 0.0 st  
MiB Mem : 3914.7 total, 3284.9 free, 645.2 used, 198.5 buff/cache  
MiB Swap: 976.0 total, 976.0 free, 0.0 used, 3269.5 avail Mem  
  
PID USER PR NI VIRT RES SHR S %CPU %MEM TIME+ COMMAND  
1 root 20 0 168244 12852 9184 S 0.0 0.3 0:00.71 systemd  
2 root 20 0 0 0 0 S 0.0 0.0 0:00.00 kthreadd  
3 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 rcu_gp  
4 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 rcu_par_gp  
5 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 slub_flushwq  
6 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 netns  
10 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 mm_percpu_wq  
11 root 20 0 0 0 0 I 0.0 0.0 0:00.00 rcu_tasks_kthread  
12 root 20 0 0 0 0 I 0.0 0.0 0:00.00 rcu_tasks_rude_kthread  
13 root 20 0 0 0 0 I 0.0 0.0 0:00.00 rcu_tasks_trace_kthread  
14 root 20 0 0 0 0 S 0.0 0.0 0:00.02 ksoftirqd/0  
15 root 20 0 0 0 0 I 0.0 0.0 0:00.15 rcu_preempt  
16 root rt 0 0 0 0 S 0.0 0.0 0:00.02 migration/0  
18 root 20 0 0 0 0 S 0.0 0.0 0:00.00 cpuhp/0  
19 root 20 0 0 0 0 S 0.0 0.0 0:00.00 cpuhp/1  
20 root rt 0 0 0 0 S 0.0 0.0 0:00.24 migration/1  
21 root 20 0 0 0 0 S 0.0 0.0 0:00.02 ksoftirqd/1  
23 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 kworker/1:0H-events_highpri  
24 root 20 0 0 0 0 S 0.0 0.0 0:00.00 cpuhp/2  
25 root rt 0 0 0 0 S 0.0 0.0 0:00.23 migration/2  
26 root 20 0 0 0 0 S 0.0 0.0 0:00.01 ksoftirqd/2  
28 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 kworker/2:0H-events_highpri  
29 root 20 0 0 0 0 S 0.0 0.0 0:00.00 cpuhp/3  
30 root rt 0 0 0 0 S 0.0 0.0 0:00.23 migration/3  
31 root 20 0 0 0 0 S 0.0 0.0 0:00.02 ksoftirqd/3  
33 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 kworker/3:0H-events_highpri  
38 root 20 0 0 0 0 S 0.0 0.0 0:00.00 kdevtmpfs  
39 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 inet_frag_wq  
40 root 20 0 0 0 0 S 0.0 0.0 0:00.00 kauditd
```

13)



Terminal window titled "eltex-pg1-v17@eltex-2025-summer: ~". The window shows a dark purple background. At the bottom, there is a file explorer bar with the text "report\_part1.txt" [New] on the left and "0,0-1 All" on the right.

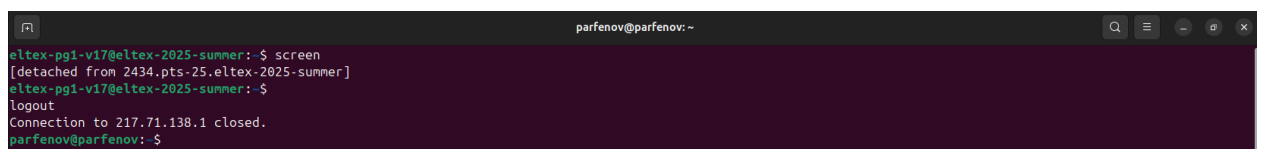
14)



Terminal window titled "eltex-pg1-v17@eltex-2025-summer: ~". The window displays a list of processes in a table format:

Num	Name	Flags
0	bash	\$
1	top	\$
2	vmstat	\$
3	bash	\$

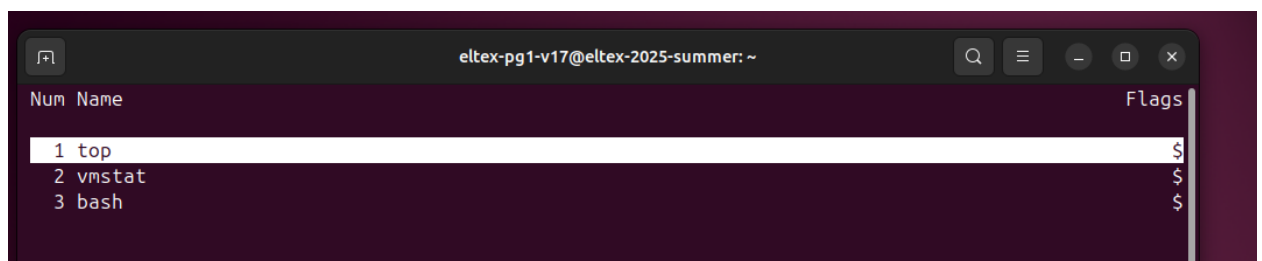
15)



Terminal window titled "parfenov@parfenov: ~". The window shows a sequence of commands and their output:

```
eltex-pg1-v17@eltex-2025-summer:~$ screen  
[detached from 2434.pts-25.eltex-2025-summer]  
eltex-pg1-v17@eltex-2025-summer:~$  
logout  
Connection to 217.71.138.1 closed.  
parfenov@parfenov:~$
```

16)



Terminal window titled "eltex-pg1-v17@eltex-2025-summer: ~". The window displays a list of processes in a table format, with the 'top' process highlighted:

Num	Name	Flags
1	top	\$
2	vmstat	\$
3	bash	\$

17)

```
Чт, 9 октября 18:45
eltex-pg1-v17@eltex-2025-summer: ~
"report_part1.txt" [New] 0,0-1 All
Парфенов Артём Витальевич часть 1 модуля 1 успешно завершена 09.10.25 18 44

"report_part1.txt" [New] 2L, 127B written
eltex-pg1-v17@eltex-2025-summer:~$ ls
report_part1.txt
eltex-pg1-v17@eltex-2025-summer:~$ cat report_part1.txt
Парфенов Артём Витальевич часть 1 модуля 1 успешно завершена 09.10.25 18 44
eltex-pg1-v17@eltex-2025-summer:~$
```

18)

```
eltex-pg1-v17@eltex-2025-summer:~$ screen -ls
There is a screen on:
  2434.pts-25.eltex-2025-summer  (10/09/2025 05:43:49 PM)      (Detached)
1 Socket in /run/screen/S-eltex-pg1-v17.
eltex-pg1-v17@eltex-2025-summer:~$ screen -XS 2434 quit
eltex-pg1-v17@eltex-2025-summer:~$ screen -ls
No Sockets found in /run/screen/S-eltex-pg1-v17.

eltex-pg1-v17@eltex-2025-summer:~$
```