

Подключитесь к серверу для выполнения практических работ, используя клиент для протокола ssh: ssh, putty, smartty (попробуйте их все и остановитесь на наиболее удобном для вас).

```
eltex-pg1-v3@eltex-2025-summer: ~
login as: eltex-pgl-v3
eltex-pgl-v3@217.71.138.1's password:
Access denied
eltex-pgl-v3@217.71.138.1's password:
Access denied
eltex-pgl-v3@217.71.138.1's password:
Linux eltex-2025-summer 6.1.0-40-amd64 #1 SMP PREEMPT_DYNAMIC Debian 6.1.153-1 (
2025-09-20) x86_64

The programs included with the Debian GNU/Linux system are free software;
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 17:34:16 2025 from 217.71.139.234
eltex-pgl-v3@eltex-2025-summer:~$
```

Запустите новую сессию утилиты screen, с именем по умолчанию, посмотрите список подключенных пользователей командой w, отключитесь от сессии.

```
eltex-pg1-v3@eltex-2025-summer: ~
eltex-pgl-v3@eltex-2025-summer:~$ w
 15:13:56 up 23:36, 23 users,  load average: 0.02, 0.02, 0.00
USER      TTY      FROM            LOGIN@   IDLE   JCPU   PCPU WHAT
tech      pts/0    37.193.179.176   Thu15    7:48m  0.13s  0.13s -bash
eltex-pg  pts/2    :pts/43:S.0     Thu18    20:26m 0.00s  0.02s SCREEN -S n -d
eltex-pg  pts/7    :pts/105:S.0    Thu20    18:13m 0.01s  ?     SCREEN -S whoam
eltex-pg  pts/10   95.104.184.195  12:24    12.00s  0.07s  0.07s -bash
eltex-pg  pts/15   212.164.65.240  15:09    0.00s  0.00s  ?     screen
eltex-pg  pts/22   :pts/42:S.0     Thu17    21:12m 0.21s  0.03s SCREEN -S top -
eltex-pg  pts/29   217.71.131.237  12:55    47:08  0.01s  ?     screen -r 83798
eltex-pg  pts/30   :pts/15:S.0     15:13    0.00s  0.04s  0.04s w
eltex-pg  pts/32   :pts/29:S.0     14:14    47:08  0.10s  0.08s SCREEN -S eltex
eltex-pg  pts/34   2.63.201.206    14:34    27:16  0.01s  0.01s -bash
eltex-pg  pts/49   :pts/36:S.0     Thu18    21:16m 0.00s  5.24s SCREEN
eltex-pg  pts/53   :pts/36:S.1     Thu18    21:13m 0.00s  ?     /usr/bin/bash
eltex-pg  pts/65   :pts/183:S.0    Thu20    18:13m 0.34s  0.08s SCREEN -S new_s
eltex-pg  pts/72   :pts/36:S.2     Thu18    21:12m 0.00s  ?     /usr/bin/bash
eltex-pg  pts/73   :pts/36:S.3     Thu18    21:11m 0.00s  ?     /usr/bin/bash
eltex-pg  pts/77   :pts/36:S.4     Thu18    20:44m 0.00s  ?     /usr/bin/bash
eltex-pg  pts/82   :pts/36:S.5     Thu18    21:04m 0.00s  ?     /usr/bin/bash
eltex-pg  pts/110  :pts/36:S.6     Thu18    20:50m 1:48   1:48  top
eltex-pg  pts/116  :pts/36:S.7     Thu18    20:46m 1:47   1:47  top
eltex-pg  pts/117  :pts/139:S.0    Thu19    19:20m 0.00s  ?     SCREEN -S top
eltex-pg  pts/134  :pts/180:S.0    Thu20    18:42m 0.00s  ?     SCREEN -S top -
eltex-pg  pts/141  :pts/56:S.0     Thu20    18:19m 0.01s  0.01s SCREEN -S top
eltex-pg  pts/148  :pts/119:S.0    Thu20    18:57m 0.01s  0.01s vi report_part1
eltex-pgl-v3@eltex-2025-summer:~$
```

Запустите отсоединенную сессию утилиты screen, при этом запустите в этой сессии команду top. Назовите сессию именем «top».

Получите список сессий, созданных утилитой screen.

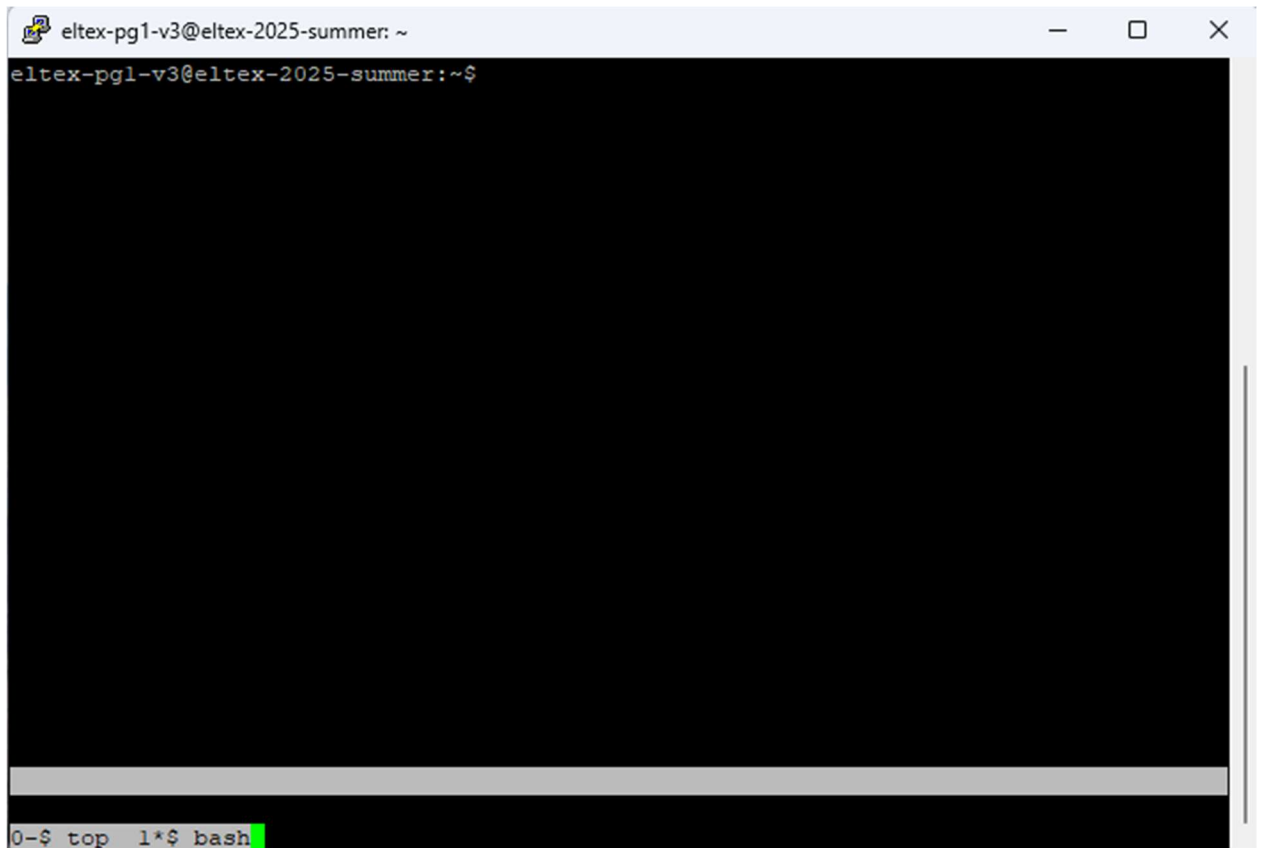
```
eltex-pg1-v3@eltex-2025-summer: ~
eltex-pg1-v3@eltex-2025-summer:~$ screen -S top -d -m top
eltex-pg1-v3@eltex-2025-summer:~$ screen -ls
There are screens on:
  938537.top          (10/10/2025 03:16:42 PM)          (Detached)
  936095.pts-15.eltex-2025-summer (10/10/2025 03:13:20 PM)          (Attached)
  2825.pts-10.eltex-2025-summer  (10/09/2025 05:49:04 PM)          (Detached)
3 Sockets in /run/screen/S-eltex-pg1-v3.
eltex-pg1-v3@eltex-2025-summer:~$
```

Подсоединитесь к сессии top.

```
eltex-pg1-v3@eltex-2025-summer: ~
top - 15:19:29 up 23:41, 25 users,  load average: 0.00, 0.00, 0.00
Tasks: 456 total,  1 running, 429 sleeping,  26 stopped,  0 zombie
%Cpu(s):  0.4 us,  0.3 sy,  0.0 ni, 99.3 id,  0.0 wa,  0.0 hi,  0.0 si,  0.0 st
MiB Mem :  3914.7 total,   888.4 free,   923.8 used,  2345.1 buff/cache
MiB Swap:  976.0 total,   960.1 free,    15.9 used.  2990.9 avail Mem

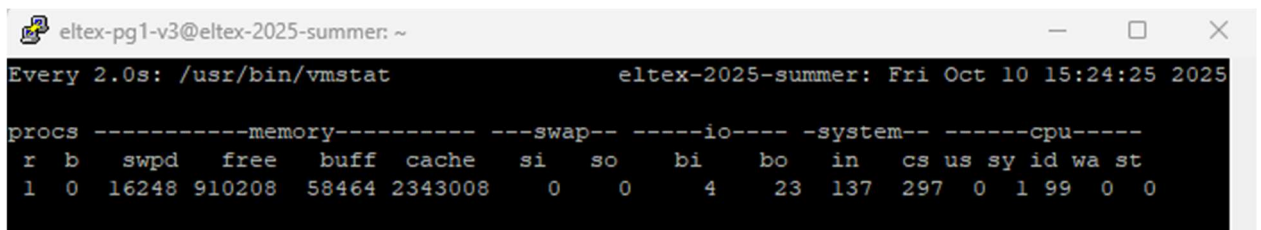
  PID USER      PR  NI   VIRT   RES   SHR  S  %CPU  %MEM    TIME+  COMMAND
    15 root        20   0     0       0     0   I   0.3   0.0   0:08.19 rcu_preempt
    898 eltex-p+   20   0   9204   3232  1736  S   0.3   0.1   0:06.67 screen
   5436 eltex-p+   20   0  11652   4996  2848  S   0.3   0.1   1:46.11 top
  20043 eltex-p+   20   0  11644   5028  2880  S   0.3   0.1   1:48.11 top
  89764 eltex-p+   20   0  11652   5060  2908  S   0.3   0.1   1:37.02 top
     1 root        20   0 168828  11828  7636  S   0.0   0.3   0:01.93 systemd
     2 root        20   0     0       0     0   S   0.0   0.0   0:00.01 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_kth+
    12 root        20   0     0       0     0   I   0.0   0.0   0:00.00 rcu_tasks_rud+
    13 root        20   0     0       0     0   I   0.0   0.0   0:00.00 rcu_tasks_tra+
    14 root        20   0     0       0     0   S   0.0   0.0   0:02.03 ksoftirqd/0
    16 root        rt    0     0       0     0   S   0.0   0.0   0:00.24 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   0:00.45 migration/1
    21 root        20   0     0       0     0   S   0.0   0.0   0:01.53 ksoftirqd/1
```

Создайте еще одно окно в сессии top.



A terminal window titled 'eltex-pg1-v3@eltex-2025-summer: ~'. The prompt is 'eltex-pg1-v3@eltex-2025-summer:~\$'. At the bottom, a command prompt shows '0-\$ top 1*\$ bash' with a green cursor.

В созданном окне выполните команду: watch /usr/bin/vmstat



A terminal window titled 'eltex-pg1-v3@eltex-2025-summer: ~'. The prompt is 'eltex-pg1-v3@eltex-2025-summer:~\$'. The command 'watch /usr/bin/vmstat' has been executed, showing the output of the 'vmstat' command every 2.0 seconds. The output is as follows:

```
Every 2.0s: /usr/bin/vmstat          eltex-2025-summer: Fri Oct 10 15:24:25 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   16248 910208  58464 2343008    0    0     4    23  137  297  0  1 99  0  0
```

Получите список окон.



A terminal window titled 'eltex-pg1-v3@eltex-2025-summer: ~'. The prompt is 'eltex-pg1-v3@eltex-2025-summer:~\$'. The command 'top' has been executed, showing the output of the 'top' command. The output is as follows:

Num	Name	Flags
0	top	\$
1	bash	\$

Переименуйте второе окно как «vmstat»

```
eltex-pg1-v3@eltex-2025-summer: ~  
Num Name                               Flags  
  0 top                                $  
  1 vmstat                             $
```

Перейдите в окно, в котором работает top.

Отсоединитесь от сессии top.

```
eltex-pg1-v3@eltex-2025-summer: ~  
[detached from 947037.pts-15.eltex-2025-summer]  
eltex-pg1-v3@eltex-2025-summer:~$
```

Запустите новую сессию и запустите в окне команду: vi report_part1.txt

```
eltex-pg1-v3@eltex-2025-summer: ~  
"report part1.txt" [New] 0,0-1 All
```




Отсоединитесь от сессии и получите список сессий.

```
eltex-pg1-v3@eltex-2025-summer: ~  
eltex-pg1-v3@eltex-2025-summer:~$ screen -ls  
There are screens on:  
  961139.vi          (10/10/2025 03:43:45 PM)      (Detached)  
  947037.pts-15.eltex-2025-summer (10/10/2025 03:27:54 PM)      (Detached)  
  938537.top         (10/10/2025 03:16:42 PM)      (Attached)  
  936095.pts-15.eltex-2025-summer (10/10/2025 03:13:20 PM)      (Detached)  
  2825.pts-10.eltex-2025-summer   (10/09/2025 05:49:04 PM)      (Detached)  
5 Sockets in /run/screen/S-eltex-pg1-v3.  
eltex-pg1-v3@eltex-2025-summer:~$
```



```
eltex-pg1-v3@eltex-2025-summer:~$ logout
```

```

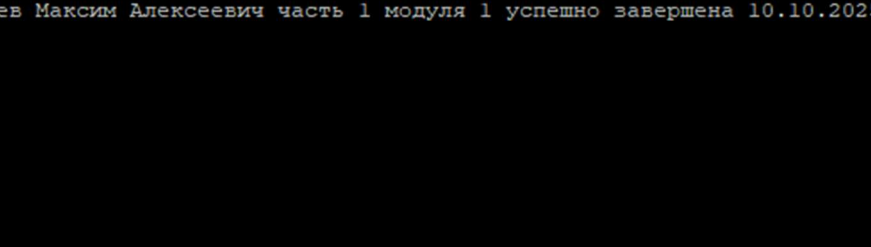
 eltex-pgl-v3@eltex-2025-summer: ~
 login as: eltex-pgl-v3
 eltex-pgl-v3@217.71.138.1's password:
Linux eltex-2025-summer 6.1.0-40-amd64 #1 SMP PREEMPT_DYNAMIC Debian 6.1.153-1 (
2025-09-20) x86_64

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Last login: Fri Oct 10 15:42:26 2025 from 212.164.65.240
eltex-pgl-v3@eltex-2025-summer:~$ screen -ls
There are screens on:
    961139.vi                (10/10/2025 03:43:45 PM)          (Detached)
    947037.pts-15.eltex-2025-summer (10/10/2025 03:27:54 PM)          (Detache
d)
    938537.top                (10/10/2025 03:16:42 PM)          (Attached)
    936095.pts-15.eltex-2025-summer (10/10/2025 03:13:20 PM)          (Detache
d)
    2825.pts-10.eltex-2025-summer   (10/09/2025 05:49:04 PM)          (Detache
d)
5 Sockets in /run/screen/S-eltex-pgl-v3.
eltex-pgl-v3@eltex-2025-summer:~$

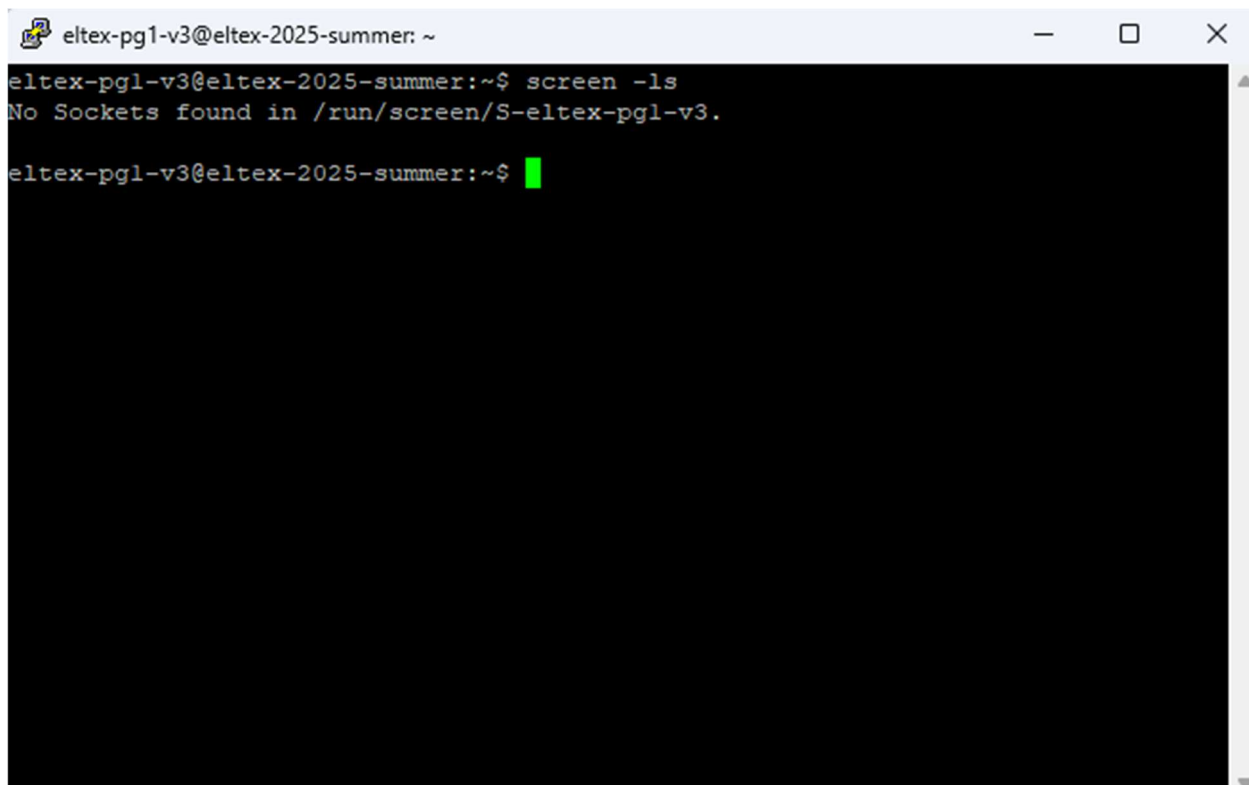
```



The screenshot shows a terminal window with a title bar that reads "eltex-pg1-v3@eltex-2025-summer: ~". The terminal output consists of two lines: a status message in Russian and a file size report. The status message is "Афанасьев Максим Алексеевич часть 1 модуля 1 успешно завершена 10.10.2025 15:52". The file size report is "report_part1.txt" 2L, 133B written. The prompt "eltex-pg1-v3@eltex-2025-summer:~\$" is visible at the bottom, followed by a green cursor.

```
eltex-pg1-v3@eltex-2025-summer: ~  
Афанасьев Максим Алексеевич часть 1 модуля 1 успешно завершена 10.10.2025 15:52  
eltex-pg1-v3@eltex-2025-summer:~$ "report_part1.txt" 2L, 133B written  
eltex-pg1-v3@eltex-2025-summer:~$
```

Закройте редактор, сохранив файл и закройте все сессии screen.



```
eltex-pg1-v3@eltex-2025-summer: ~  
eltex-pg1-v3@eltex-2025-summer:~$ screen -ls  
No Sockets found in /run/screen/S-eltex-pg1-v3.  
eltex-pg1-v3@eltex-2025-summer:~$
```