

Отчёт 1 практика, 1 раздел

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1. Подключитесь к серверу для выполнения практических работ, используя клиент для протокола ssh.

```
eltex-pg1-v7@eltex-2025-sum x + v
Microsoft Windows [Version 10.0.26100.4349]
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C:\Users\Anastasia>ssh eltex-pg1-v7@217.71.138.1 -p 44556
The authenticity of host '[217.71.138.1]:44556 ([217.71.138.1]:44556)' can't be established.
ED25519 key fingerprint is SHA256:9EeAnPIp/wDj41XS55iG0Efff5a90ZLW9TTAI37NiBb0.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? y
Please type 'yes', 'no' or the fingerprint: yes
Warning: Permanently added '[217.71.138.1]:44556' (ED25519) to the list of known hosts.
eltex-pg1-v7@217.71.138.1's password:
Permission denied, please try again.
eltex-pg1-v7@217.71.138.1's password:
Linux eltex-2025-summer 6.1.0-32-amd64 #1 SMP PREEMPT_DYNAMIC Debian 6.1.129-1 (2025-03-06) x86_64

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permitted by applicable law.
eltex-pg1-v7@eltex-2025-summer:~$ |
```

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

Запуск screen

```
GNU Screen version 4.09.00 (GNU) 30-Jan-22

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not, see https://www.gnu.org/licenses/, or contact Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor,
Boston, MA 02111-1301 USA.

Send bugreports, fixes, enhancements, t-shirts, money, beer & pizza to screen-devel@gnu.org

Capabilities:
+copy +remote-detach +power-detach +multi-attach +multi-user +font +color-256 +utf8 +rxvt +builtin-telnet

[Press Space or Return to end.]
```

Смотрим список подключённых устройств с помощью команды w.

```
eltex-pg1-v7@eltex-2025-summer:~$ w
10:33:37 up 1:32, 22 users, load average: 0.37, 0.33, 0.18
USER      TTY      FROM          LOGIN@      IDLE        JCPU        PCPU        WHAT
tech      pts/0    37.193.179.176 09:10       1:22m      0.02s      0.02s      -bash
eltex-pg  pts/1    217.71.139.232 10:25       7:21       0.00s      ?          -bash
eltex-pg  pts/2    217.71.139.232 10:19       1.00s      0.00s      ?          -bash
eltex-pg  pts/3    217.71.131.234 10:19       17.00s     0.00s      ?          screen
eltex-pg  pts/4    217.71.131.234 10:21       2:38       0.01s      0.01s      -bash
eltex-pg  pts/5    217.71.131.234 10:24       25.00s     0.01s      0.01s      -bash
eltex-pg  pts/6    178.178.207.24 10:24       9:10       0.00s      ?          -bash
eltex-pg  pts/7    217.71.139.232 10:26       7:22       0.00s      ?          -bash
eltex-pg  pts/8    217.71.139.232 10:27       1:52       0.01s      0.01s      -bash
eltex-pg  pts/9    217.71.139.232 10:27       3:45       0.00s      ?          -bash
eltex-pg  pts/10   217.71.139.232 10:27       25.00s     0.00s      ?          -bash
eltex-pg  pts/11   217.71.139.232 10:29       4:06       0.00s      ?          -bash
eltex-pg  pts/12   217.71.139.232 10:27       5:51       0.01s      0.01s      -bash
eltex-pg  pts/13   217.71.139.232 10:27       40.00s     0.01s      0.01s      -bash
eltex-pg  pts/14   :pts/3:S.0     10:28       17.00s     0.00s      ?          /usr/bin/bash
eltex-pg  pts/15   217.71.139.232 10:29       7.00s      0.00s      ?          screen
eltex-pg  pts/16   217.71.139.232 10:31       9.00s      0.01s      0.01s      -bash
eltex-pg  pts/17   217.71.139.232 10:32       59.00s     0.01s      0.01s      -bash
eltex-pg  pts/18   217.71.139.232 10:32       1:01       0.00s      ?          -bash
eltex-pg  pts/19   178.178.207.24 10:32       0.00s      0.00s      ?          screen
eltex-pg  pts/20   :pts/19:S.0    10:32       0.00s      0.05s      0.05s      w
eltex-pg  pts/21   :pts/15:S.0    10:33       7.00s      0.00s      ?          /usr/bin/bash
```

Отключаемся от сессии комбинацией клавиш Ctrl+a+d.

```
eltex-pg1-v7@eltex-2025-summer:~$ screen
[detached from 1352.pts-19.eltex-2025-summer]
```

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

Пишем команду top

```
top - 10:51:34 up 1:50, 33 users, load average: 0.14, 0.26, 0.26
Tasks: 294 total, 1 running, 293 sleeping, 0 stopped, 0 zombie
%Cpu(s): 1.0 us, 0.7 sy, 0.0 ni, 98.0 id, 0.2 wa, 0.0 hi, 0.2 si, 0.0 st
MiB Mem : 3914.7 total, 3290.5 free, 589.3 used, 248.7 buff/cache
MiB Swap: 976.0 total, 976.0 free, 0.0 used, 3325.4 avail Mem

  PID USER      PR  NI   VIRT   RES   SHR  S  %CPU  %MEM    TIME+  COMMAND
 2838 eltex-p+  20   0  11660  5336  3184  S   3.3   0.1   0:00.10 top
 2599 eltex-p+  20   0   8400  2668  1924  S   0.7   0.1   0:00.02 screen
 1338 eltex-p+  20   0  18092  7064  5068  S   0.3   0.2   0:00.03 sshd
 1758 eltex-p+  20   0  11616  5364  3224  S   0.3   0.1   0:01.13 top
 2091 root      20   0     0     0     0  I   0.3   0.0   0:00.03 kworker/u8:0-events_unbound
 2117 eltex-p+  20   0  11636  5140  3240  S   0.3   0.1   0:00.35 top
 2216 eltex-p+  20   0  18000  6852  4984  S   0.3   0.2   0:00.05 sshd
 2518 eltex-p+  20   0  11636  5032  3132  S   0.3   0.1   0:00.14 top
    1 root      20   0 168260 12684  9124  S   0.0   0.3   0:00.64 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
    8 root      0 -20     0     0     0  I   0.0   0.0   0:00.00 kworker/0:0H-events_highpri
   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   0:00.08 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
```

Выходим из top.

С помощью сочетания клавиш Ctrl+a+: запускаем команду строку screen. Вводим команду sessionname top. Текущая сессия будет переименована в «top».

```
:sessionname top
```

4. Получите список сессий, созданных утилитой screen.

```
There is a screen on:
      1728.top          (07/07/2025 10:39:19 AM)      (Attached)
1 Socket in /run/screen/S-eltex-pg1-v7.
```

5. Подсоединитесь к сессии top.

Не отсоединялись

6. Создайте еще одно окно в сессии top.

```
eltex-pg1-v7@eltex-2025-summer:~$ screen -ls
There are screens on:
      10411.pts-54.eltex-2025-summer (07/07/2025 11:16:09 AM)      (Attached)
      1728.top          (07/07/2025 10:39:18 AM)      (Attached)
2 Sockets in /run/screen/S-eltex-pg1-v7.
```

7. В созданном окне выполните команду:

watch /usr/bin/vmstat

Получите список окон.

```
Every 2.0s: /usr/bin/vmstat                               eltex-2025-summer: Mon Jul 7 11:18:34 2025

procs -----memory----- --swap--  -----io----- -system--  -----cpu-----
 r b  swpd  free  buff  cache   si   so    bi   bo    in   cs us sy id wa st
 2 0      0 3264416 21300 246776    0    0     5    5   30   39  0  0 97  2  0
```

8. Переименуйте второе окно как «vmstat».

```
:sessionname vmstat
```

9. Перейдите в окно, в котором работает top.

```
There are screens on:
      10411.vmstat      (07/07/2025 11:16:09 AM)      (Detached)
      1728.top          (07/07/2025 10:39:18 AM)      (Attached)
2 Sockets in /run/screen/S-eltex-pg1-v7.
```

10. Отсоединитесь от сессии top.

```
eltex-pg1-v7@eltex-2025-summer:~$
logout
Connection to 217.71.138.1 closed.
```

vi report_part1.txt

12. Отсоединитесь от сессии и получите список сессий.

13. Отключитесь от сервера, используя команду `logout` или комбинацию клавиш `Ctrl+D`.

14. Подключитесь к серверу (как в п.1), и получите список сессий screen.

15. Подключитесь к сессии с редактором и запишите в файл:

"ФИО часть 1 модуля 1 успешно завершена дата и время"

[illegible]

16. Отсоединитесь от сессии и получите список сессий.

```
eltex-pg1-v7@eltex-2025-summer:~$ screen -ls
There are screens on:
  18503.pts-13.eltex-2025-summer  (07/07/2025 11:25:54 AM)      (Detached)
  10411.vmstat                   (07/07/2025 11:16:10 AM)      (Detached)
  1728.top                       (07/07/2025 10:39:19 AM)      (Attached)
3 Sockets in /run/screen/S-eltex-pg1-v7.
```