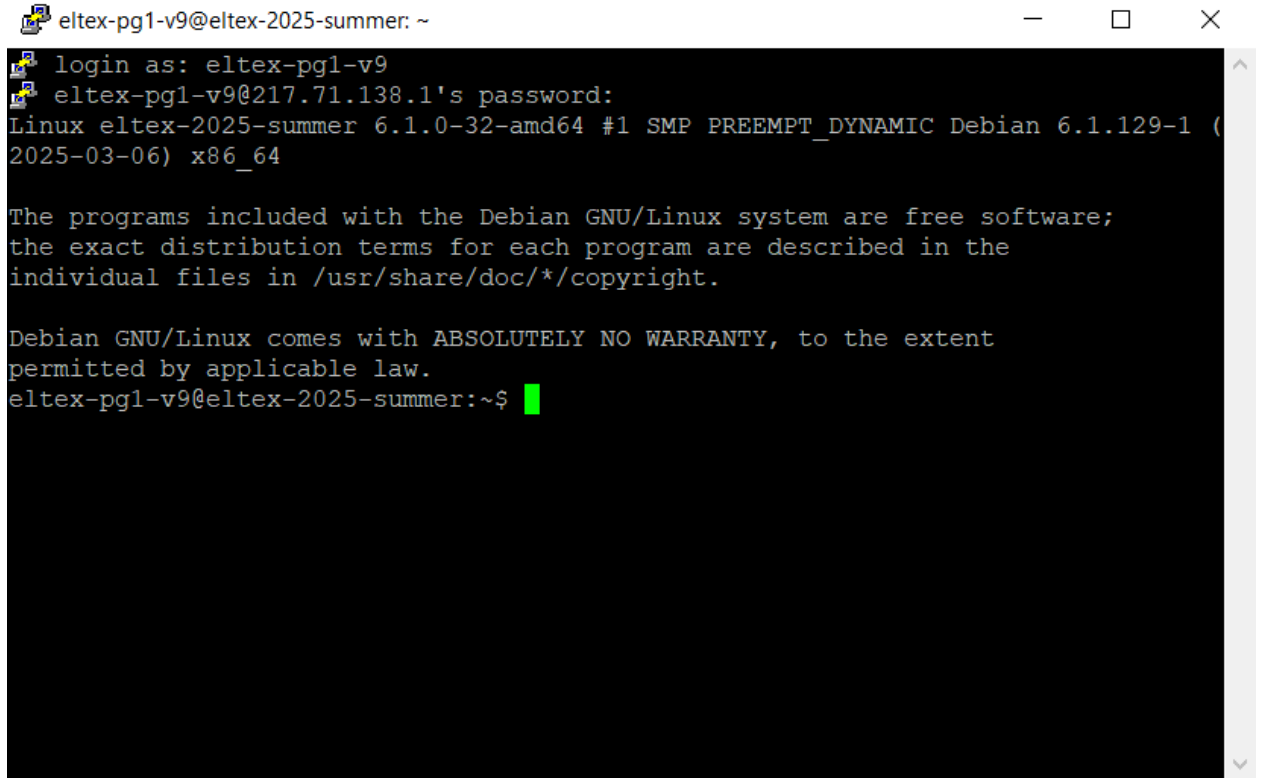


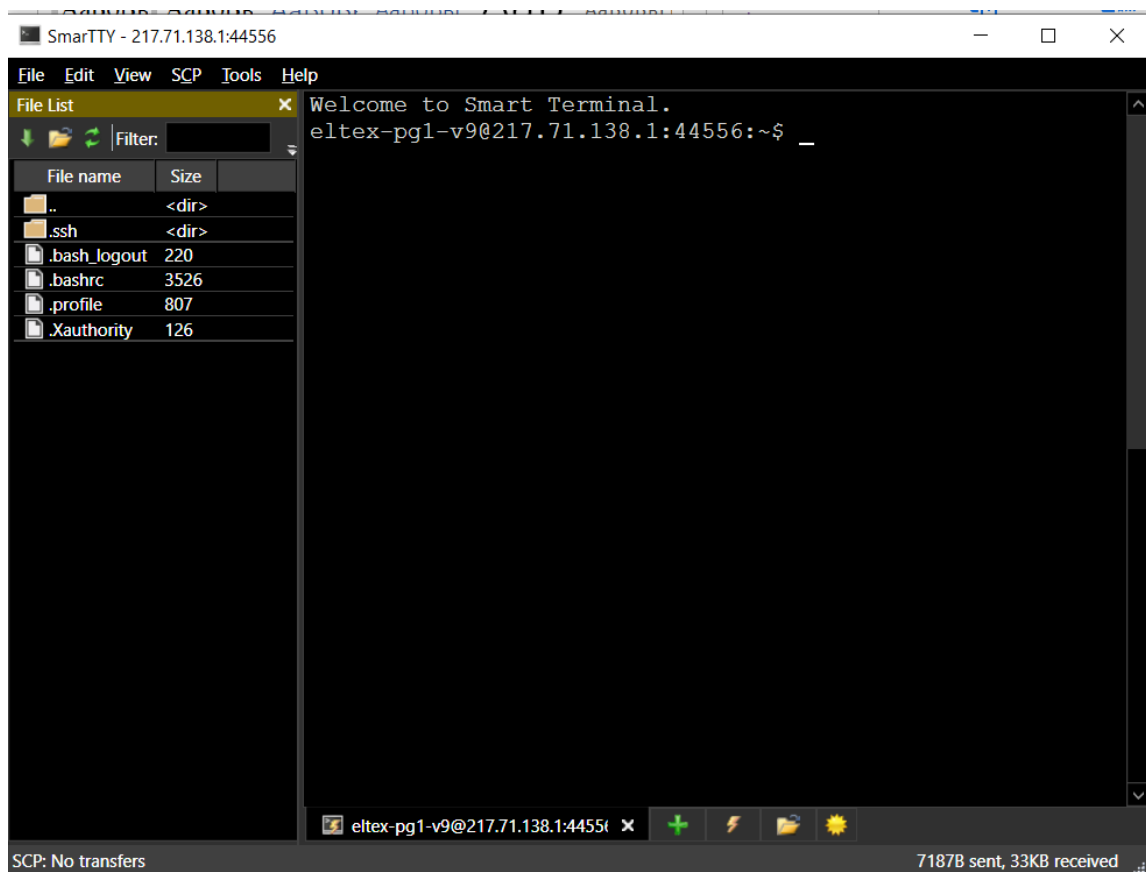
Задания. Раздел 1.

1. 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-v9@eltex-2025-summer: ~  
login as: eltex-pg1-v9  
eltex-pg1-v9@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  
  
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.  
eltex-pg1-v9@eltex-2025-summer:~$
```

putty



SmartTTY

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

SmarTTY - 217.71.138.1:44556

File Edit View SCP Tools Help

File List

File name	Size
..	<dir>
.ssh	<dir>
.bash_history	7
.bash_logout	220
.bashrc	3526
.profile	807
.Xauthority	126

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

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[Press Space for next page; Return to end.]

eltex-pg1-v9@217.71.138.1:44556

SCP: No transfers 6147B sent, 33KB received

Результат команды screen

The screenshot shows a 'SmartTTY' window titled 'SmarTTY - 217.71.138.1:44556'. It features a menu bar with 'File', 'Edit', 'View', 'SCP', 'Tools', and 'Help'. On the left is a 'File List' pane with a 'Filter' input and a table of files:

File name	Size
..	<dir>
.ssh	<dir>
.bash_history	7
.bash_logout	220
.bashrc	3526
.profile	807
.Xauthority	126

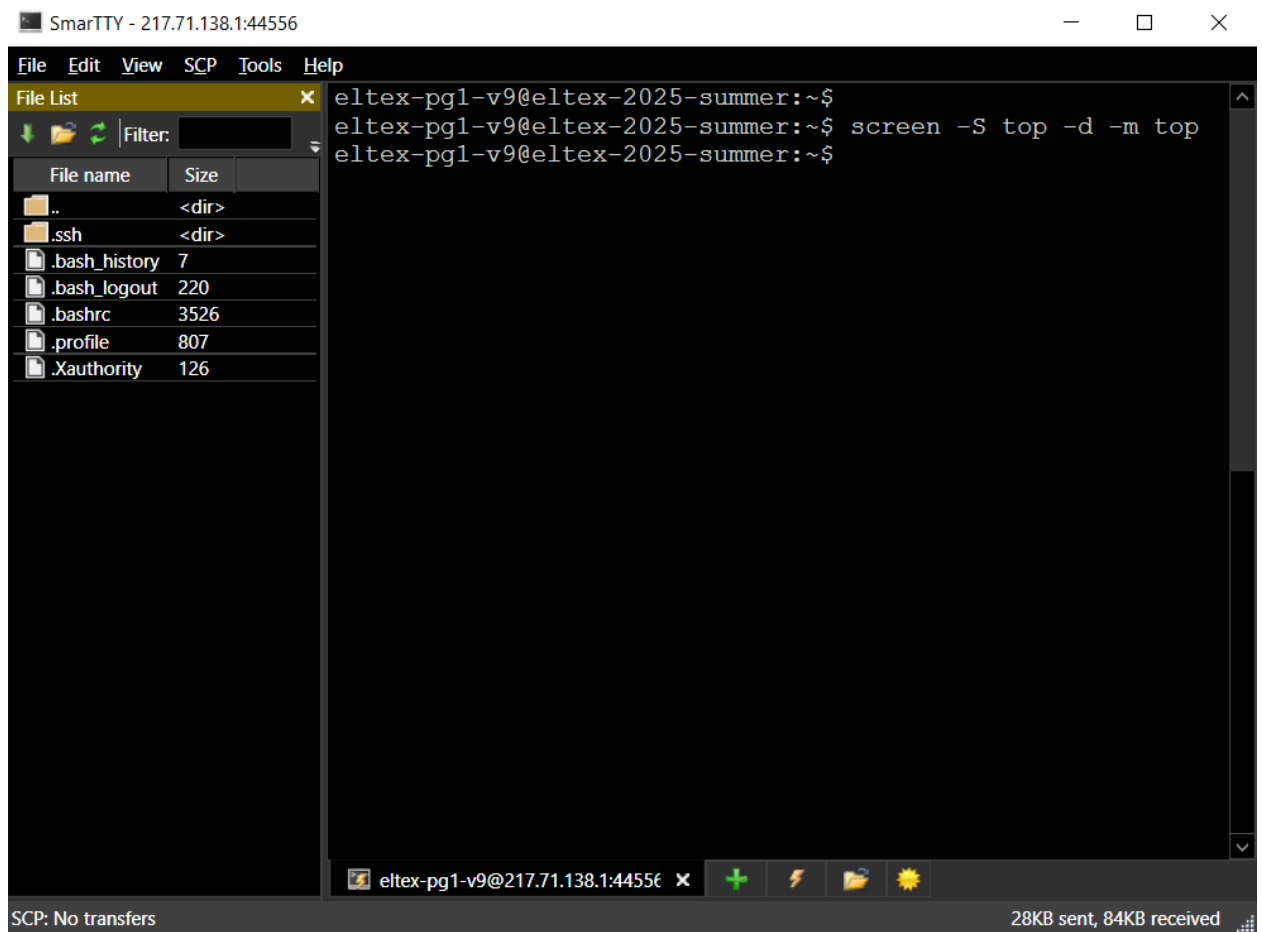
The main terminal area displays the following text:

```
Welcome to Smart Terminal.  
eltex-pg1-v9@217.71.138.1:44556:~$ screen  
[detached from 1690.pts-42.eltex-2025-summer]  
eltex-pg1-v9@217.71.138.1:44556:~$
```

At the bottom, a status bar shows 'SCP: No transfers' on the left and '6627B sent, 40KB received' on the right. A taskbar at the very bottom includes a tab for 'eltex-pg1-v9@217.71.138.1:44556' and several icons.

Отсоединился

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



Создал

4. Получите список сессий, созданных утилитой screen.

SmartTTY - 217.71.138.1:44556

File Edit View SCP Tools Help

File List

File name	Size
..	<dir>
.ssh	<dir>
.bash_history	7
.bash_logout	220
.bashrc	3526
.profile	807
.Xauthority	126

```
eltex-pg1-v9@eltex-2025-summer:~$
eltex-pg1-v9@eltex-2025-summer:~$ screen -S top -d -m top
eltex-pg1-v9@eltex-2025-summer:~$ screen -ls
There are screens on:
      3156.top          (07/07/2025 10:53:19 AM)          (D
etached)
      1690.pts-42.eltex-2025-summer  (07/07/2025 10:38:
55 AM) (Attached)
      1514.pts-12.eltex-2025-summer  (07/07/2025 10:36:
35 AM) (Detached)
3 Sockets in /run/screen/S-eltex-pg1-v9.
eltex-pg1-v9@eltex-2025-summer:~$ _
```

eltex-pg1-v9@217.71.138.1:44556

SCP: No transfers 30KB sent, 87KB received

Список соединений

5. Подсоединитесь к сессии top.

SmarTTY - 217.71.138.1:44556

File Edit View SCP Tools Help

File List

Filter:

File name	Size
..	<dir>
.ssh	<dir>
.bash_history	7
.bash_logout	220
.bashrc	3526
.profile	807
.Xauthority	126

top - 10:54:56 up 1:53, 46 users, load average: 0.02, 0
Tasks: 302 total, 1 running, 301 sleeping, 0 stopped,
%Cpu(s): 0.0 us, 0.5 sy, 0.0 ni, 99.4 id, 0.1 wa, 0.
MiB Mem : 3914.7 total, 3267.5 free, 607.5 used,
MiB Swap: 976.0 total, 976.0 free, 0.0 used.

PID	USER	PR	NI	VIRT	RES	SHR	S	%CPU
1728	eltex-p+	20	0	8268	2576	1848	S	0.3
2716	eltex-p+	20	0	11636	5116	3224	S	0.3
2766	eltex-p+	20	0	11636	5508	3356	S	0.3
1	root	20	0	168396	12732	9124	S	0.0
2	root	20	0	0	0	0	S	0.0
3	root	0	-20	0	0	0	I	0.0
4	root	0	-20	0	0	0	I	0.0
5	root	0	-20	0	0	0	I	0.0
6	root	0	-20	0	0	0	I	0.0
8	root	0	-20	0	0	0	I	0.0
10	root	0	-20	0	0	0	I	0.0
11	root	20	0	0	0	0	I	0.0
12	root	20	0	0	0	0	I	0.0
13	root	20	0	0	0	0	I	0.0
14	root	20	0	0	0	0	S	0.0
15	root	20	0	0	0	0	I	0.0
16	root	rt	0	0	0	0	S	0.0
18	root	20	0	0	0	0	S	0.0
19	root	20	0	0	0	0	S	0.0
20	root	rt	0	0	0	0	S	0.0

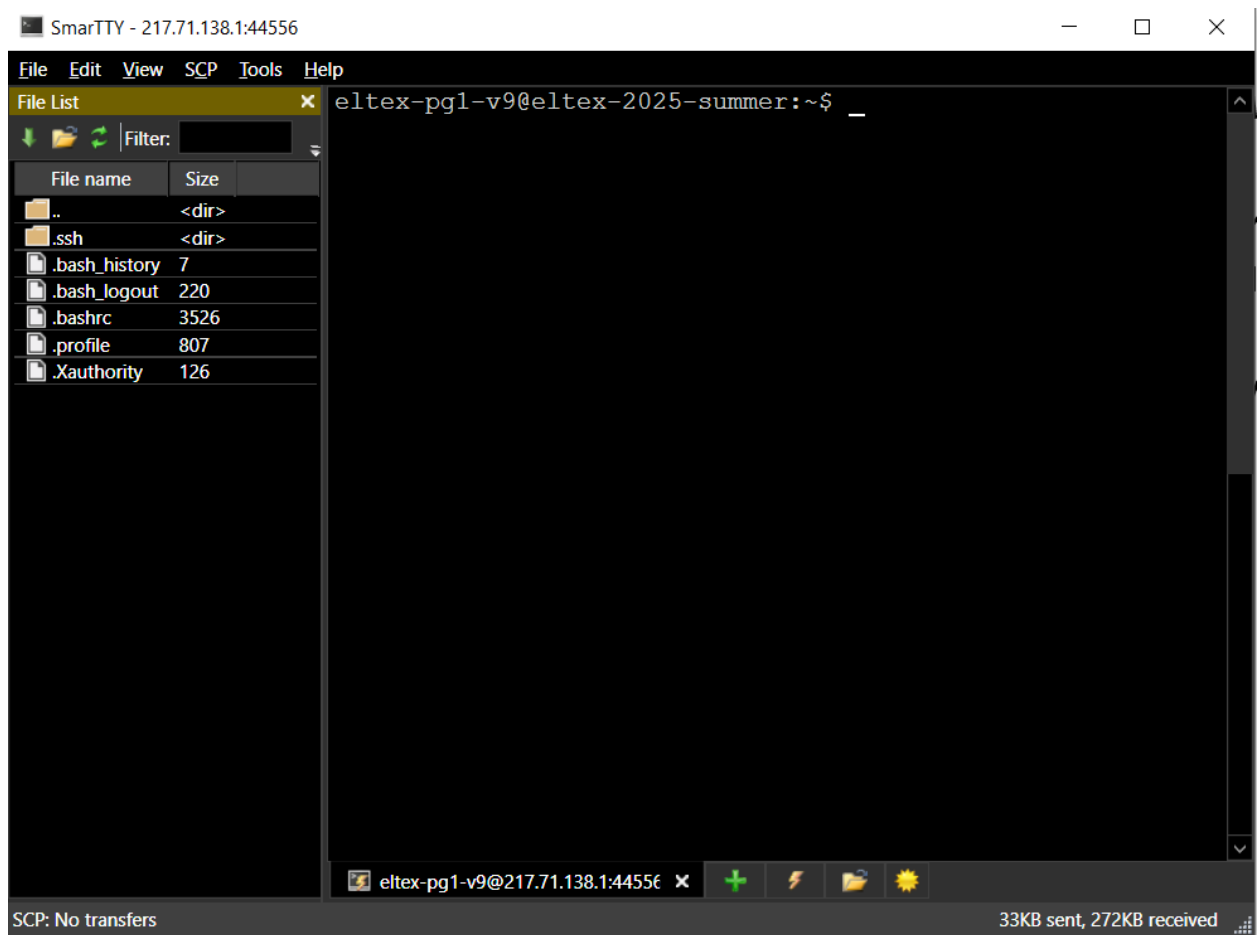
eltex-pg1-v9@217.71.138.1:44556

SCP: No transfers

31KB sent, 96KB received

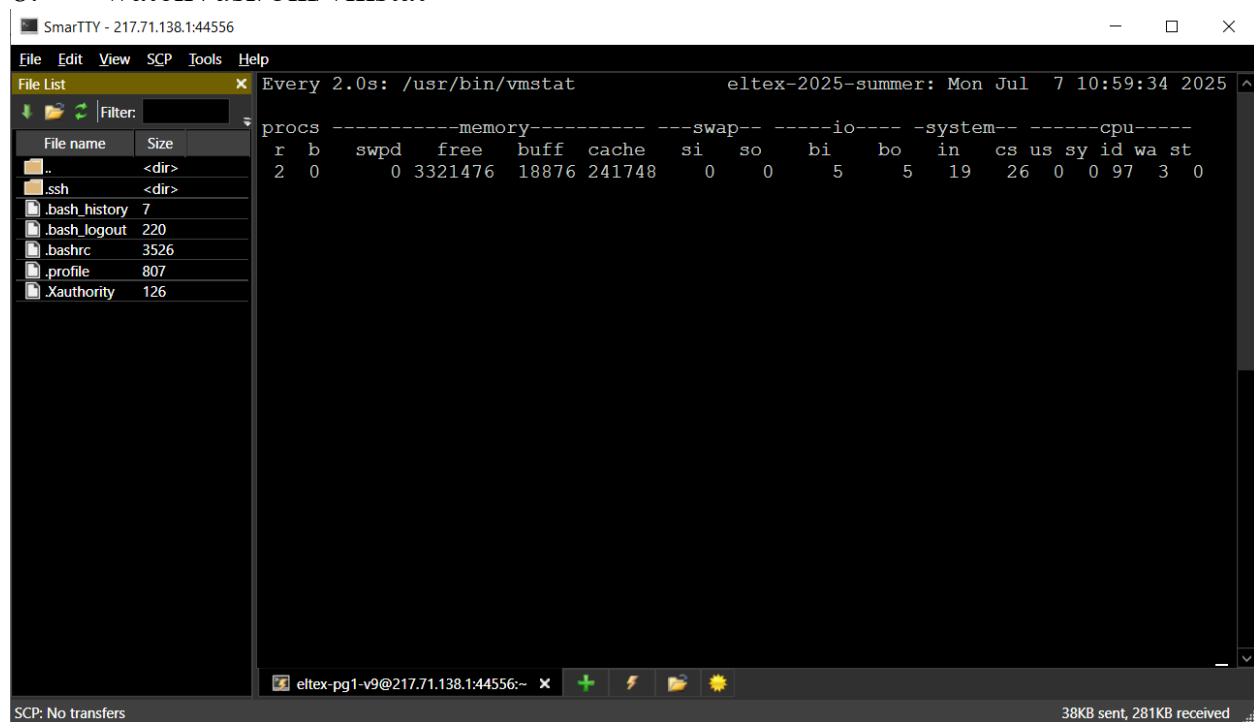
Присоединился

6. Создайте еще одно окно в сессии top.

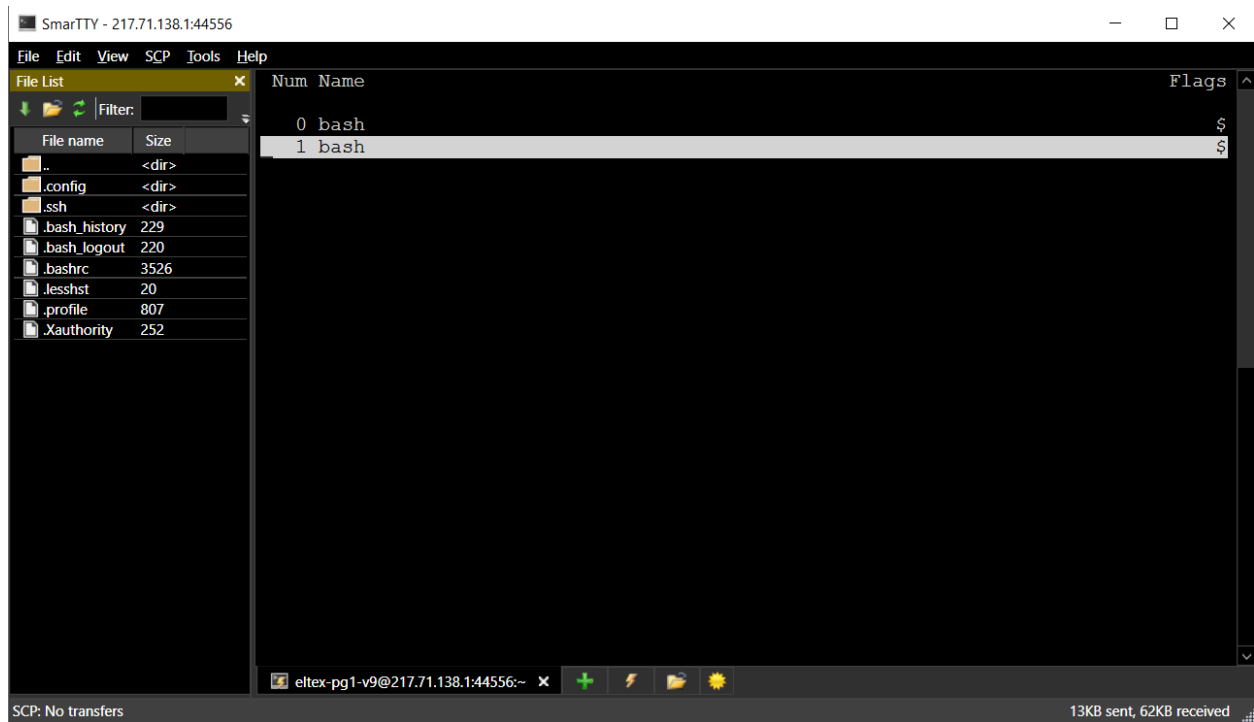


Новое окно через ctrl+a C

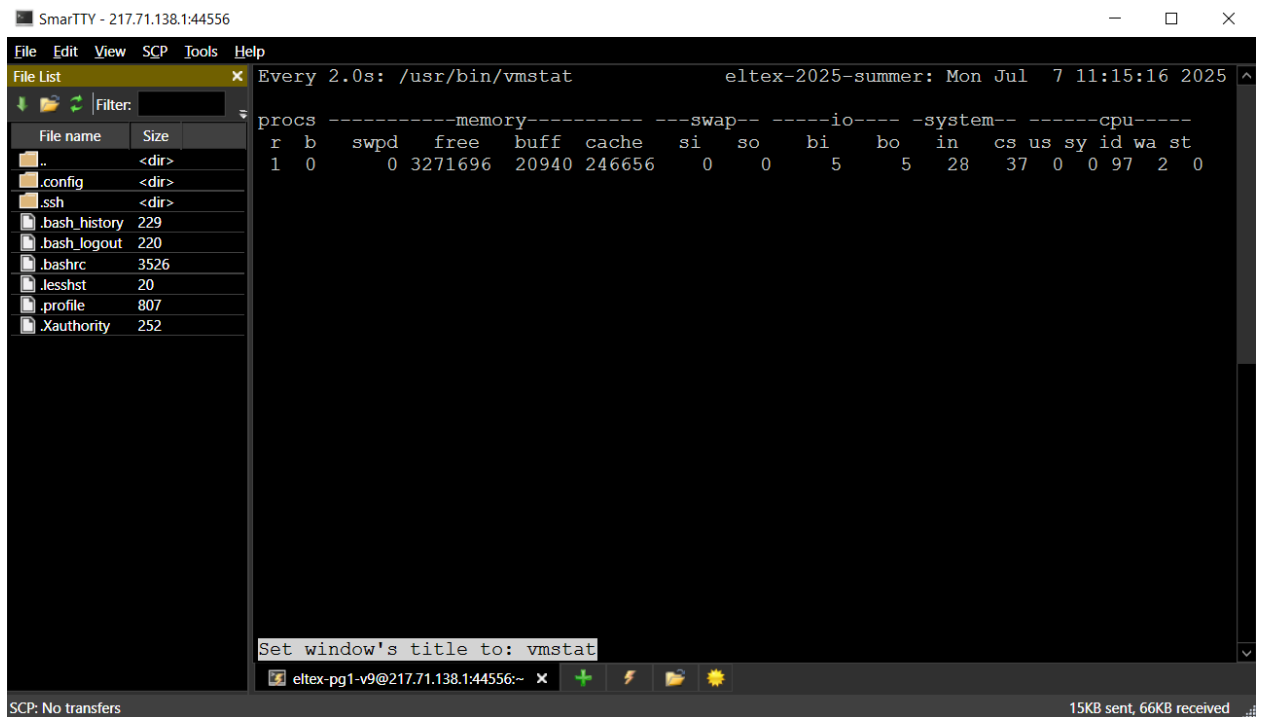
7. В созданном окне выполните команду:
8. `watch /usr/bin/vmstat`



9. Получите список окон.



10. Переименуйте второе окно как «vmstat».



11. Перейдите в окно, в котором работает top.

SmarTTY - 217.71.138.1:44556

File Edit View SCP Tools Help

File List

top - 11:15:38 up 2:14, 62 users, load average: 0.08, 0.11, 0.10
Tasks: 357 total, 1 running, 356 sleeping, 0 stopped, 0 zombie
%Cpu(s): 0.2 us, 0.4 sy, 0.0 ni, 99.1 id, 0.2 wa, 0.0 hi, 0.2 si, 0.0 st
MiB Mem : 3914.7 total, 3204.3 free, 663.8 used, 261.4 buff/cache
MiB Swap: 976.0 total, 976.0 free, 0.0 used. 3250.9 avail Mem

PID	USER	PR	NI	VIRT	RES	SHR	S	%CPU	%MEM	TIME+	COMMAND
6119	eltex-p+	20	0	11636	5428	3280	S	0.7	0.1	0:00.73	top
44	root	20	0	0	0	0	S	0.3	0.0	0:00.16	kcompactd0
3157	eltex-p+	20	0	11636	5404	3252	R	0.3	0.1	0:01.64	top
4619	eltex-p+	20	0	11616	5504	3356	S	0.3	0.1	0:01.01	top
5259	eltex-p+	20	0	11616	5404	3256	S	0.3	0.1	0:00.94	top
5342	eltex-p+	20	0	11636	5068	3172	S	0.3	0.1	0:00.95	top
7225	eltex-p+	20	0	18092	6860	4940	S	0.3	0.2	0:00.03	sshd
7659	root	20	0	0	0	0	I	0.3	0.0	0:00.06	kworker/1:+
8600	eltex-p+	20	0	6288	3088	2488	S	0.3	0.1	0:00.03	watch
1	root	20	0	168396	12760	9124	S	0.0	0.3	0:00.75	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_flush+
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:+
10	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	mm_percpu_+
11	root	20	0	0	0	0	I	0.0	0.0	0:00.00	rcu_tasks_+
12	root	20	0	0	0	0	I	0.0	0.0	0:00.00	rcu_tasks_+
13	root	20	0	0	0	0	I	0.0	0.0	0:00.00	rcu_tasks_+

SCP: No transfers

15KB sent, 74KB received

12. Отсоединитесь от сессии top.

SmarTTY - 217.71.138.1:44556

File Edit View SCP Tools Help

File List

eltex-pg1-v9@217.71.138.1:44556:~\$ screen -ls

There are screens on:

Screen Name	Time	Status
3156.top	(07/07/2025 10:53:19 AM)	(Detached)
1690.pts-42.eltex-2025-summer	(07/07/2025 10:38:55 AM)	(Detached)
1514.pts-12.eltex-2025-summer	(07/07/2025 10:36:35 AM)	(Detached)

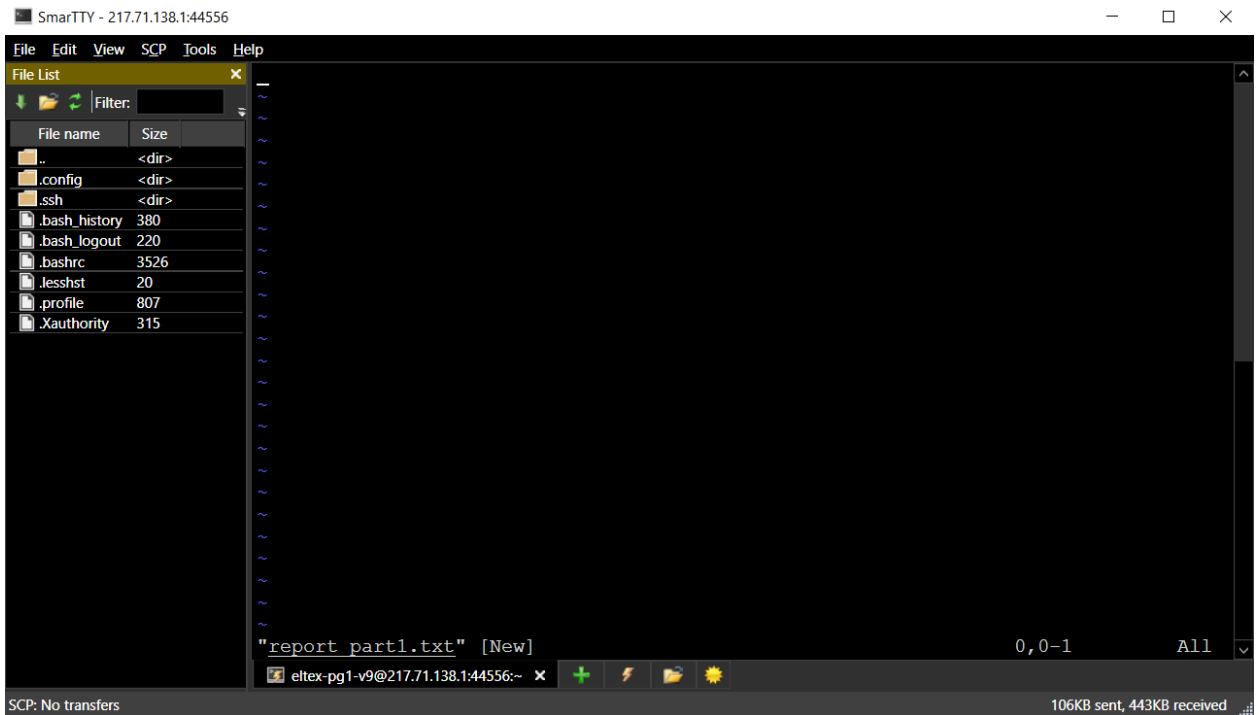
3 Sockets in /run/screen/S-eltex-pg1-v9.

eltex-pg1-v9@217.71.138.1:44556:~\$

SCP: No transfers

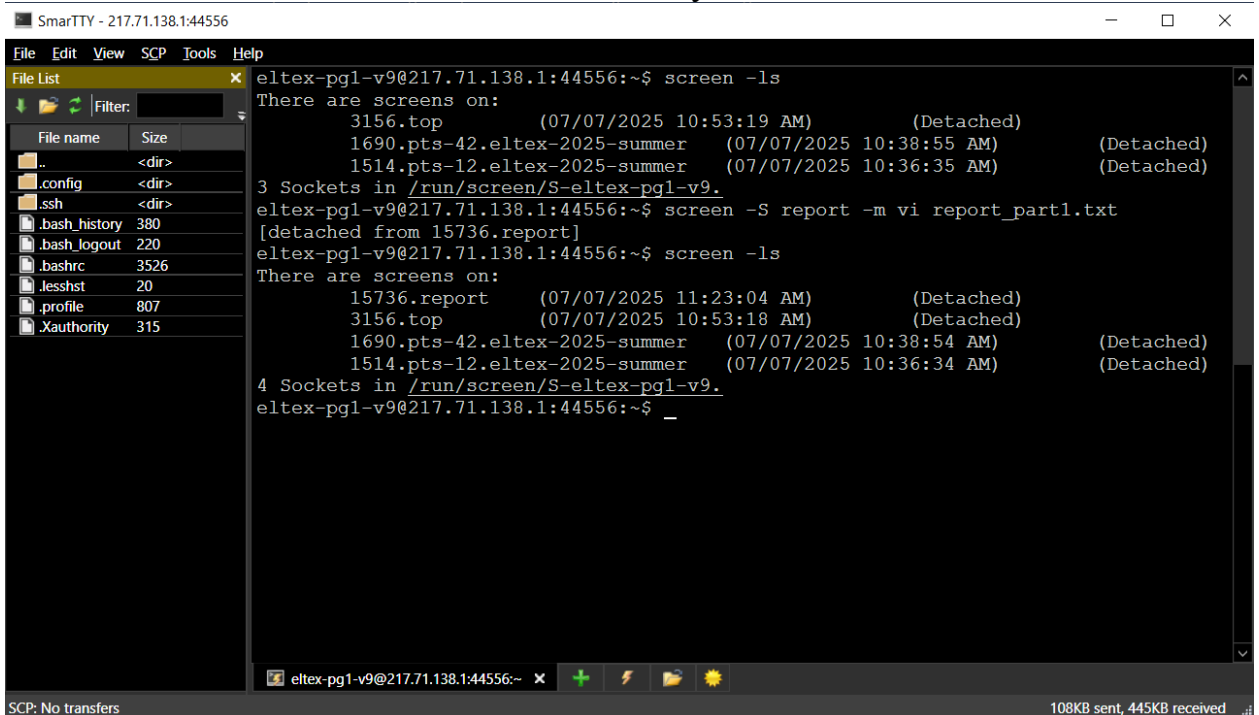
102KB sent, 430KB received

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



Новая сессия

14. Отсоединитесь от сессии и получите список сессий.



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

Отключился

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

SmarTTY - 217.71.138.1:44556

File Edit View SCP Tools Help

File List

File name	Size
..	<dir>
.config	<dir>
.ssh	<dir>
.bash_history	527
.bash_logout	220
.bashrc	3526
.lessht	20
.profile	807
.report_part1.txt.swp	12K
.Xauthority	315

```
Welcome to Smart Terminal.
eltex-pg1-v9@217.71.138.1:44556:~$
```

eltex-pg1-v9@217.71.138.1:44556:~

SCP: No transfers 5219B sent, 32KB received

SmarTTY - 217.71.138.1:44556

File Edit View SCP Tools Help

File List

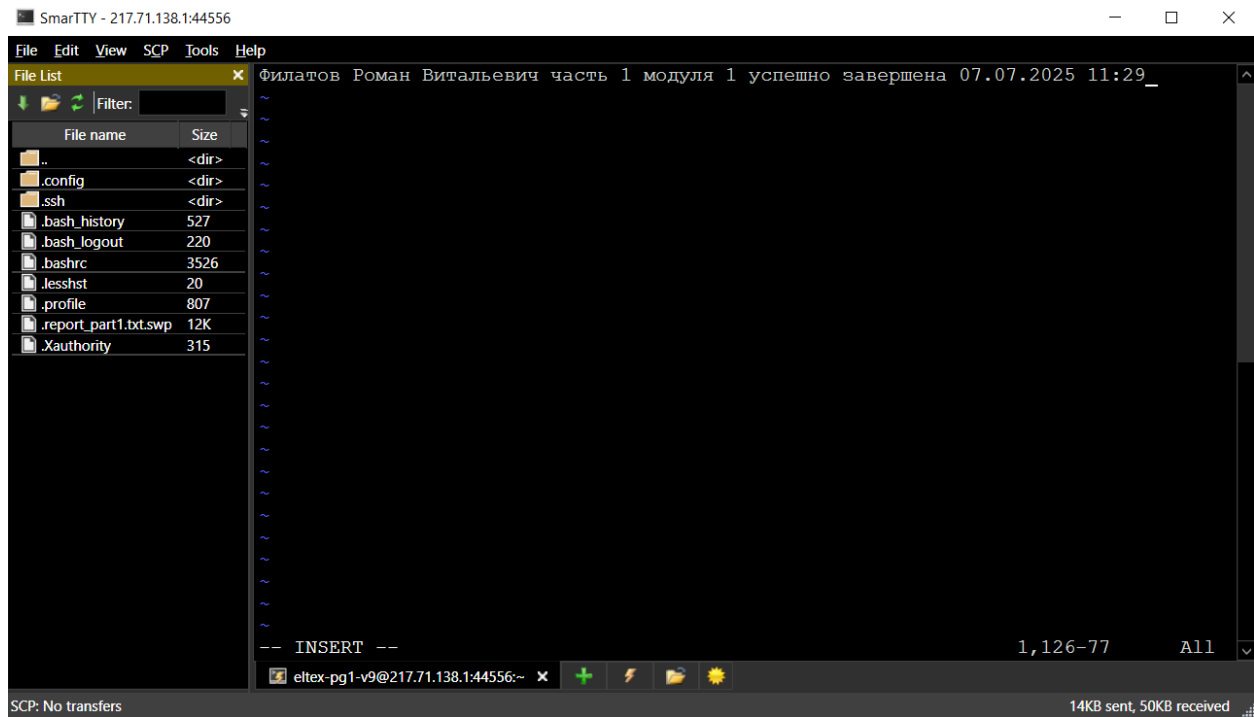
File name	Size
..	<dir>
.config	<dir>
.ssh	<dir>
.bash_history	527
.bash_logout	220
.bashrc	3526
.lessht	20
.profile	807
.report_part1.txt.swp	12K
.Xauthority	315

```
Welcome to Smart Terminal.
eltex-pg1-v9@217.71.138.1:44556:~$ screen -ls
There are screens on:
      15736.report      (07/07/2025 11:23:05 AM)      (Detached)
      3156.top          (07/07/2025 10:53:19 AM)      (Detached)
      1690.pts-42.eltex-2025-summer (07/07/2025 10:38:55 AM)      (Detached)
      1514.pts-12.eltex-2025-summer (07/07/2025 10:36:35 AM)      (Detached)
4 Sockets in /run/screen/S-eltex-pg1-v9.
eltex-pg1-v9@217.71.138.1:44556:~$
```

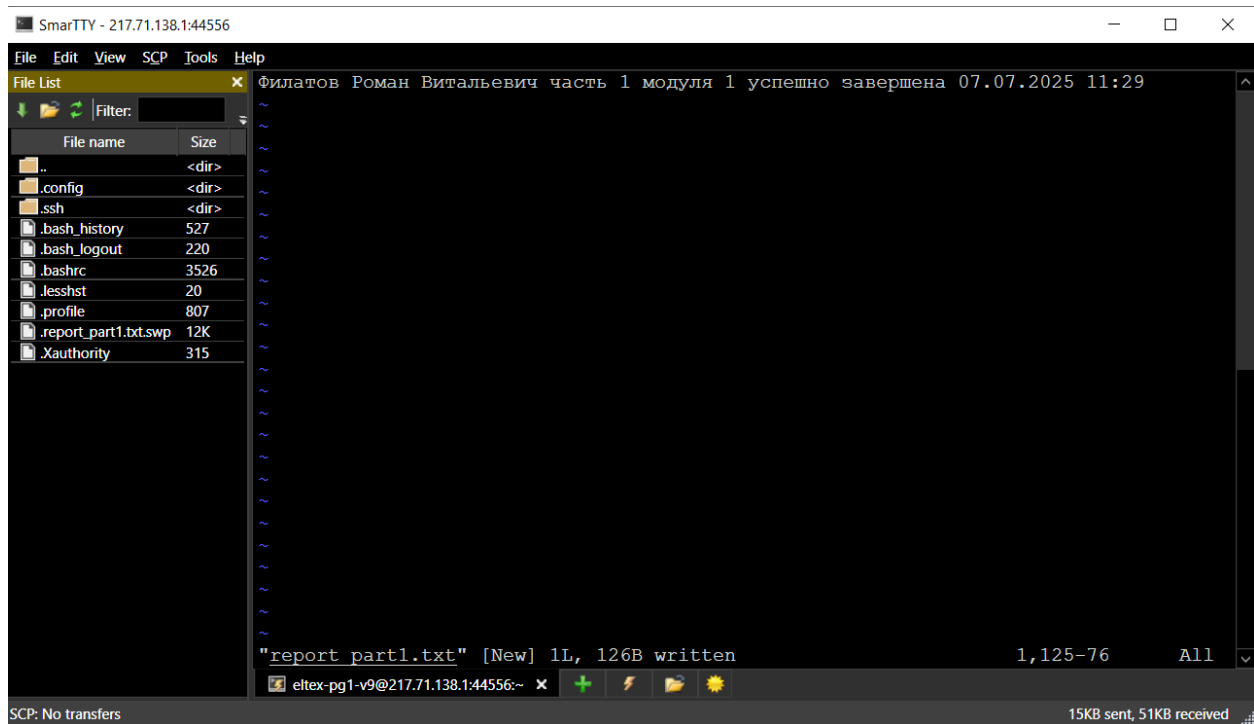
eltex-pg1-v9@217.71.138.1:44556:~

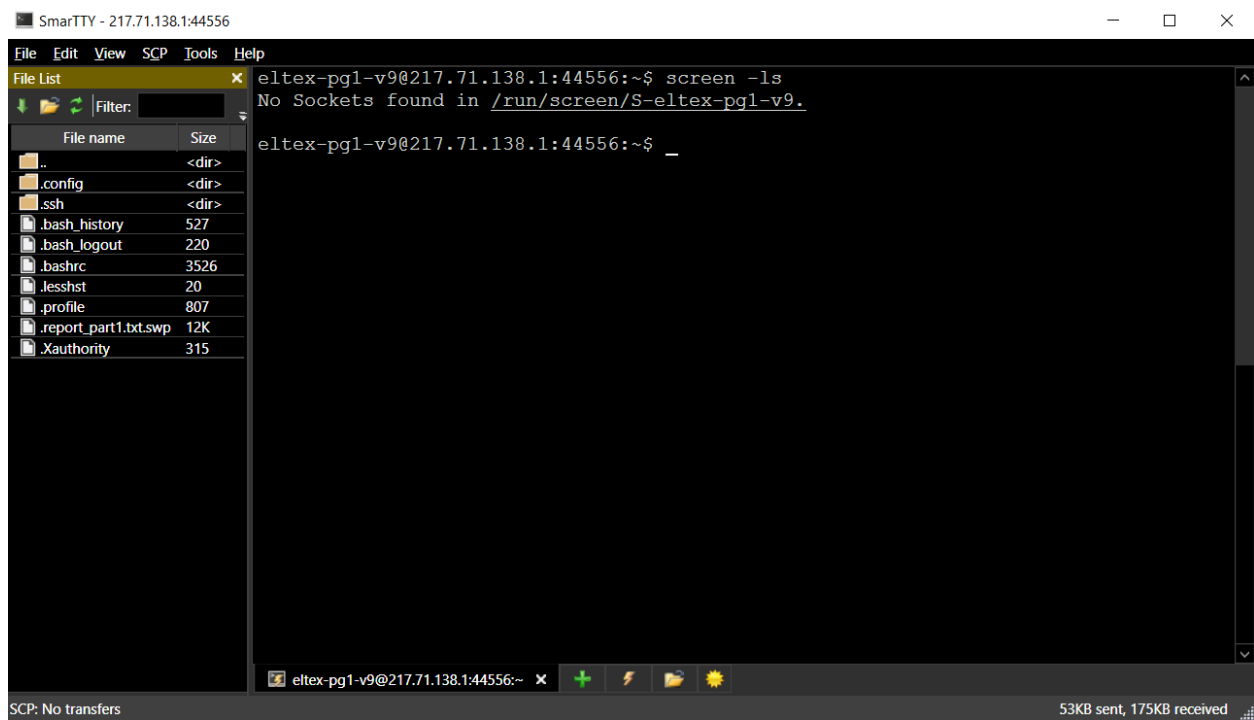
SCP: No transfers 6771B sent, 35KB received

17. Подключитесь к сессии с редактором и запишите в файл "ФИО часть 1 модуля 1 успешно завершена дата и время"



18. Закройте редактор, сохранив файл и закройте все сессии screen.





Все сессии закрыты