Лабораторная работа №14

СТУДЕНТ: САХНО

ГРУППА: НФИБД-02-23

Цель

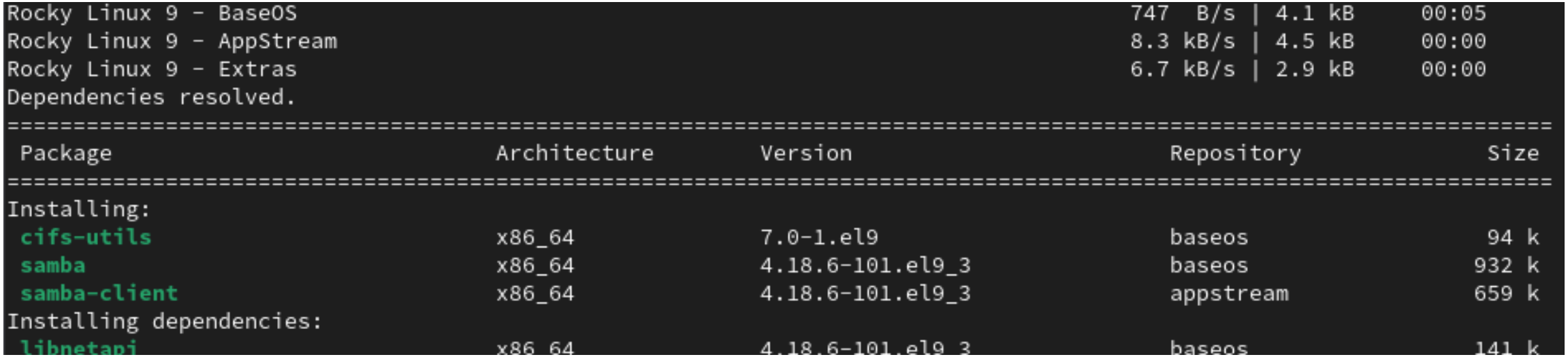
Приобрести навыки настройки доступа групп пользователей к общим ресурсам по протоколу SMB.

Задания

Установите и настройте сервер Samba.

Настройте на клиенте доступ к разделяемым ресурсам.

Напишите скрипты для Vagrant, фиксирующие действия по установке и настройке сервера Samba для доступа к разделяемым ресурсам во внутреннем окружении виртуальных машин server и client. Соответствующим образом необходимо внести изменения в Vagrantfile.

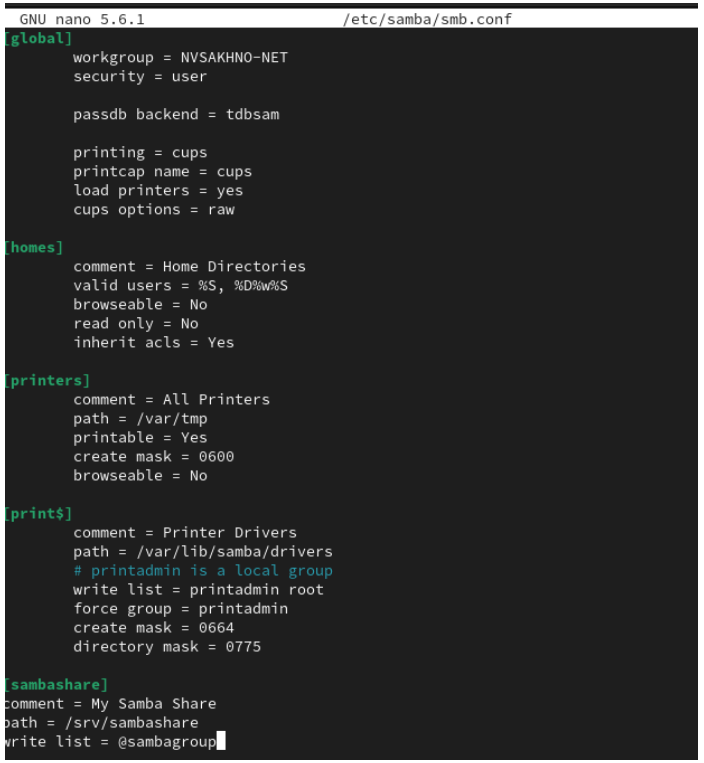


```
Rocky Linux 9 - BaseOS                                          747  B/s | 4.1 kB     00:05
Rocky Linux 9 - AppStream                                       8.3 kB/s | 4.5 kB     00:00
Rocky Linux 9 - Extras                                          6.7 kB/s | 2.9 kB     00:00
Dependencies resolved.
================================================================================================
 Package                    Architecture        Version                    Repository       Size
================================================================================================
Installing:
 cifs-utils                 x86_64              7.0-1.el9                  baseos           94 k
 samba                      x86_64              4.18.6-101.el9_3           baseos          932 k
 samba-client               x86_64              4.18.6-101.el9_3           appstream       659 k
Installing dependencies:
 libnetapi                  x86_64              4.18.6-101.el9_3           baseos          141 k
```

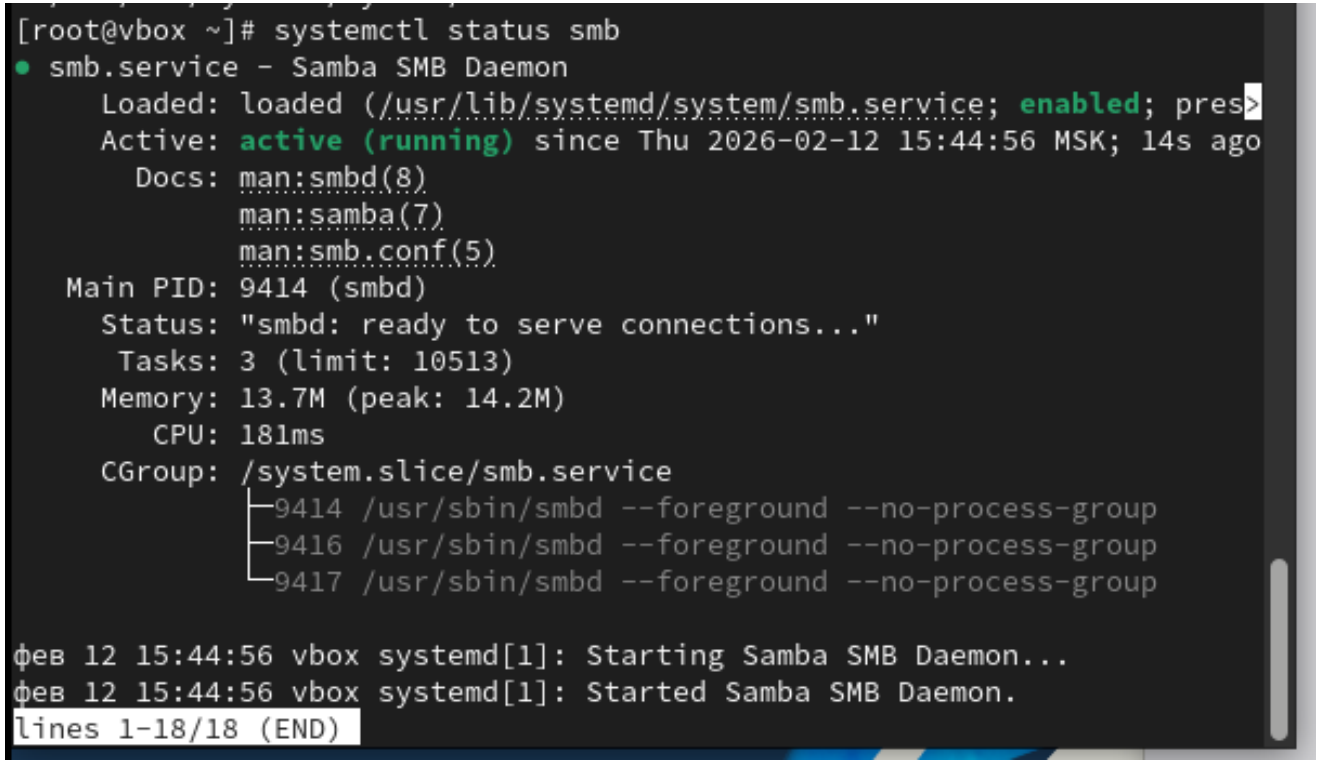
Задание №1

```
[root@vbox ~]# groupadd -g 1010 sambagroup
[root@vbox ~]# usermod -aG sambagroup nvsakhno
[root@vbox ~]# mkdir -p /srv/sambashare
[root@vbox ~]#
```

Задание №1


GNU nano 5.6.1 /etc/samba/smb.conf
[global]
workgroup = NVSAKHNO-NET
security = user
passdb backend = tdbsam
printing = cups
printcap name = cups
load printers = yes
cups options = raw
[homes]
comment = Home Directories
valid users = %S, %D%w%S
browseable = No
read only = No
inherit acls = Yes
[printers]
comment = All Printers
path = /var/tmp
printable = Yes
create mask = 0600
browseable = No
[print$]
comment = Printer Drivers
path = /var/lib/samba/drivers
# printadmin is a local group
write list = printadmin root
force group = printadmin
create mask = 0664
directory mask = 0775
[sambashare]
comment = My Samba Share
path = /srv/sambashare
write list = @sambagroup

Задание №1


[root@vbox ~]# systemctl status smb
● smb.service - Samba SMB Daemon
Loaded: loaded (/usr/lib/systemd/system/smb.service; enabled; pres>
Active: active (running) since Thu 2026-02-12 15:44:56 MSK; 14s ago
Docs: man:smbd(8)
man:samba(7)
man:smb.conf(5)
Main PID: 9414 (smbd)
Status: "smbd: ready to serve connections..."
Tasks: 3 (limit: 10513)
Memory: 13.7M (peak: 14.2M)
CPU: 181ms
CGroup: /system.slice/smb.service
├─9414 /usr/sbin/smbd --foreground --no-process-group
├─9416 /usr/sbin/smbd --foreground --no-process-group
└─9417 /usr/sbin/smbd --foreground --no-process-group
фев 12 15:44:56 vbox systemd[1]: Starting Samba SMB Daemon...
фев 12 15:44:56 vbox systemd[1]: Started Samba SMB Daemon.
lines 1-18/18 (END)

Задание №1

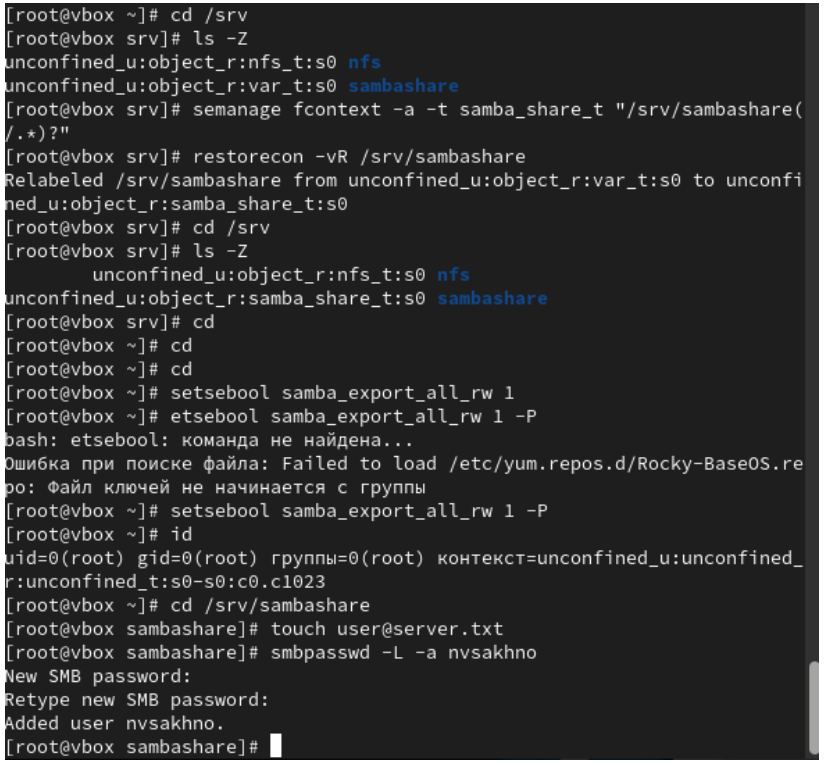
```
Anonymous login successful

        Sharename       Type      Comment
        ---------       ----      -------
        print$          Disk      Printer Drivers
        sambashare      Disk      My Samba Share
        IPC$            IPC       IPC Service (Samba 4.18.6)
SMB1 disabled -- no workgroup available
```

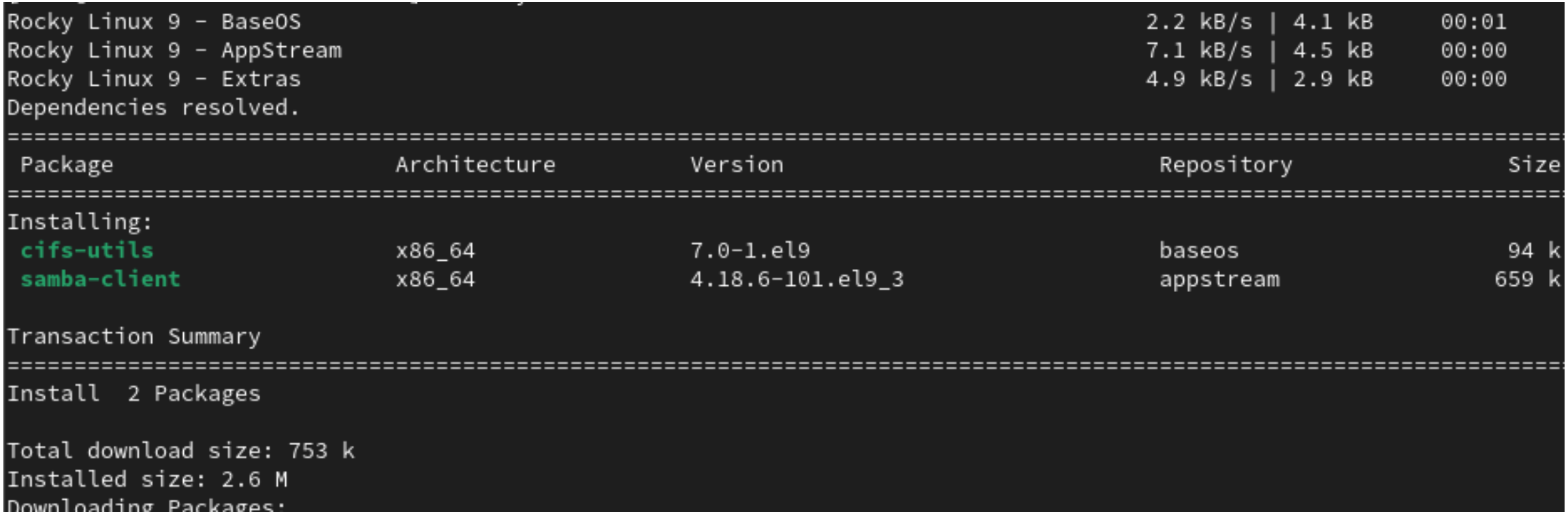
Задание №1

```
[root@vbox ~]# less /usr/lib/firewalld/services/samba.xml
[root@vbox ~]# firewall-cmd --add-service=samba
success
[root@vbox ~]# firewall-cmd --add-service=samba --permanent
success
[root@vbox ~]# firewall-cmd --reload
success
[root@vbox ~]# chgrp sambagroup /srv/sambashare
[root@vbox ~]# chmod g=rwx /srv/sambashare
[root@vbox ~]#
```

Задание №1


[root@vbox ~]# cd /srv
[root@vbox srv]# ls -Z
unconfined_u:object_r:nfs_t:s0 nfs
unconfined_u:object_r:var_t:s0 sambashare
[root@vbox srv]# semanage fcontext -a -t samba_share_t "/srv/sambashare(
/.*)?"
[root@vbox srv]# restorecon -vR /srv/sambashare
Relabeled /srv/sambashare from unconfined_u:object_r:var_t:s0 to unconfi
ned_u:object_r:samba_share_t:s0
[root@vbox srv]# cd /srv
[root@vbox srv]# ls -Z
unconfined_u:object_r:nfs_t:s0 nfs
unconfined_u:object_r:samba_share_t:s0 sambashare
[root@vbox srv]# cd
[root@vbox ~]# cd
[root@vbox ~]# cd
[root@vbox ~]# setsebool samba_export_all_rw 1
[root@vbox ~]# etsebool samba_export_all_rw 1 -P
bash: etsebool: команда не найдена...
Ошибка при поиске файла: Failed to load /etc/yum.repos.d/Rocky-BaseOS.re
po: Файл ключей не начинается с группы
[root@vbox ~]# setsebool samba_export_all_rw 1 -P
[root@vbox ~]# id
uid=0(root) gid=0(root) группы=0(root) контекст=unconfined_u:unconfined_
r:unconfined_t:s0-s0:c0.c1023
[root@vbox ~]# cd /srv/sambashare
[root@vbox sambashare]# touch user@server.txt
[root@vbox sambashare]# smbpasswd -L -a nvsakhno
New SMB password:
Retype new SMB password:
Added user nvsakhno.
[root@vbox sambashare]#

Задание №1


Rocky Linux 9 - BaseOS 2.2 kB/s | 4.1 kB 00:01
Rocky Linux 9 - AppStream 7.1 kB/s | 4.5 kB 00:00
Rocky Linux 9 - Extras 4.9 kB/s | 2.9 kB 00:00
Dependencies resolved.
Package Architecture Version Repository Size
Installing:
cifs-utils x86_64 7.0-1.el9 baseos 94 k
samba-client x86_64 4.18.6-101.el9_3 appstream 659 k
Transaction Summary
Install 2 Packages
Total download size: 753 k
Installed size: 2.6 M
Downloading Packages:

Задание №2

```
[root@vbox sambashare]# firewall-cmd --add-service=samba-client
success
[root@vbox sambashare]# firewall-cmd --add-service=samba-client --perman
ent
success
[root@vbox sambashare]# firewall-cmd --reload
success
[root@vbox sambashare]#
```

Задание №2

```
  GNU nano 5.6.1                                                smb.conf
# See smb.conf.example for a more detailed config file or
# read the smb.conf manpage.
# Run 'testparm' to verify the config is correct after
# you modified it.
#
# Note:
# SMB1 is disabled by default. This means clients without support for S
# SMB3 are no longer able to connect to smbd (by default).
```

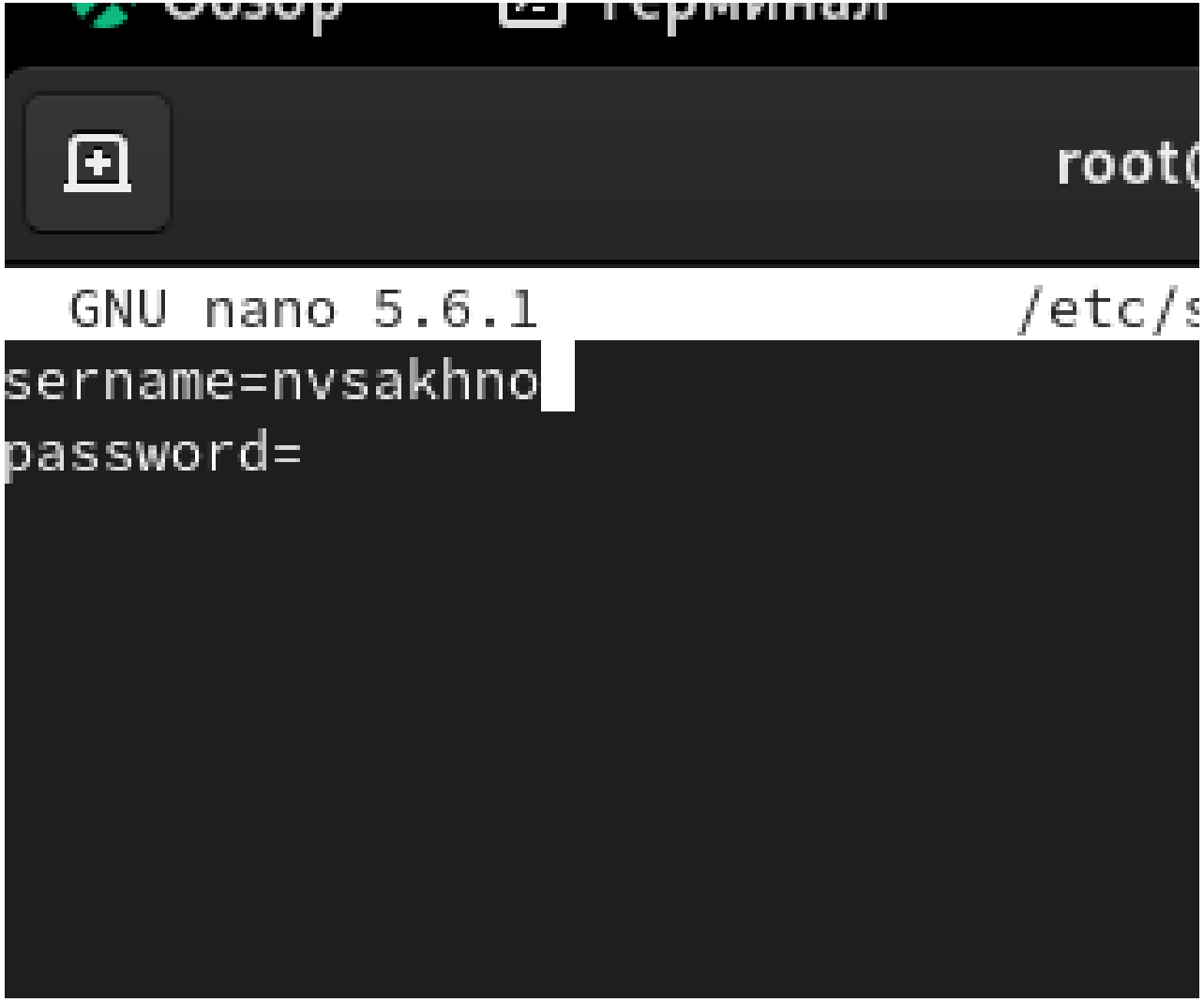
Задание №2

```
        Sharename       Type      Comment
        ---------       ----      -------
        print$          Disk      Printer Drivers
        sambashare      Disk      My Samba Share
        IPC$            IPC       IPC Service (Samba 4.18.6)
SMB1 disabled -- no workgroup available
```

Задание №2

```
[root@vbox sambashare]# cd /mnt/samba
[root@vbox samba]# touch nvsakhno@client.txt
[root@vbox samba]#
```

Задание №2



Задание №2

```
echo "Provisioning script $0"

echo "Install needed packages"
dnf -y install samba samba-client cifs-utils

echo "Copy configuration files"
cp -R /vagrant/provision/server/smb/etc/* /etc
chown -R root:root /etc/samba/*
restorecon -vR /etc

echo "Configure firewall"
firewall-cmd --add-service samba --permanent
firewall-cmd --reload

echo "Users and groups"
groupadd -g 1010 sambagroup
usermod -aG sambagroup $LOGIN
echo -ne "$PASS\n$PASS\n" | smbpasswd -L -a -s $LOGIN

echo "Make share dir"
mkdir -p /srv/sambashare
chgrp sambagroup /srv/sambashare
chmod g=rwx /srv/sambashare

echo "Tuning SELinux"
semanage fcontext -a -t samba_share_t "/srv/sambashare(/.*)?"
setsebool samba_export_all_rw 1
setsebool samba_export_all_rw 1 -P
restorecon -vR /srv/sambashare

echo "Start smb service"
systemctl enable smb
systemctl start smb
systemctl restart firewalld
```

Задание №3

Вывод:

В процессе выполнения данной работы я приобрел практические навыки настройки доступа групп пользователей к общим ресурсам по протоколу SMB.