

# **Лабораторная работа**

Номер 14

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## Информация

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## Докладчик

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## Цель работы

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Приобретение навыков настройки доступа групп пользователей к общим ресурсам по протоколу SMB.

# Установка пакетов Samba на сервере

```
[dmmosharov@server.dmmosharov.net ~]$ sudo -i
[sudo] password for dmmosharov:
[root@server.dmmosharov.net ~]# dnf -y install samba samba-client cifs-utils
Rocky Linux 10 - BaseOS 1.8 kB/s | 4.3 kB    00:02
Rocky Linux 10 - AppStream 14 kB/s | 4.3 kB   00:00
Rocky Linux 10 - CRB      14 kB/s | 4.3 kB   00:00
Rocky Linux 10 - Extras   11 kB/s | 3.1 kB   00:00
Dependencies resolved.

=====
           Package          Arch    Version        Repo      Size
-----
Installing:
  cifs-utils      x86_64 7.2-1.el10    baseos    117 k
  samba          x86_64 4.22.4-106.el10 baseos    959 k
  samba-client    x86_64 4.22.4-106.el10 appstream 770 k
Installing dependencies:
  libnetapi        x86_64 4.22.4-106.el10 baseos    144 k
  samba-common-tools
                    x86_64 4.22.4-106.el10 baseos    481 k
  samba-dcerpc     x86_64 4.22.4-106.el10 baseos    716 k
  samba-ldb-ldap-modules
                    x86_64 4.22.4-106.el10 baseos     35 k
  samba-libs       x86_64 4.22.4-106.el10 baseos    124 k

Transaction Summary
-----
Install  8 Packages
```

Рис. 1: Установка пакетов Samba на сервере

## Создание пользователей, групп и каталога

```
Complete!
[root@server.dmmosharov.net ~]# groupadd -g 1010 sambagroup
[root@server.dmmosharov.net ~]# usermod -aG sambagroup dmmosharov
[root@server.dmmosharov.net ~]# mkdir -p /srv/sambashare
[root@server.dmmosharov.net ~]# nano /etc/samba/smb.conf
```

**Рис. 2:** Создание пользователей, групп и каталога

# Настройка smb.conf

```
[global]
workgroup = DMMOSHAROV-NET
security = user

passdb backend = tdbsam

printing = cups
printcap name = cups
load printers = yes
cups options = raw

# Install samba-usershares package for support
include = /etc/samba/usershares.conf

[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 = @smbagroup
```

Рис. 3: Настройка smb.conf

# Проверка конфигурации

```
[root@server dmosharov.net ~]# testparm
Load smb config files from /etc/samba/smb.conf
Loaded services file OK.
Weak crypto is allowed by GnuTLS (e.g. NTLM as a compatibility fallback)

Server role: ROLE_STANDALONE

Press enter to see a dump of your service definitions

# Global parameters
[global]
        printcap_name = cups
        security = USER
        workgroup = DMOSHAROV-NET
        idmap config * :backend = tdb
        cups options = raw
        include = /etc/samba/usershares.conf

[homes]
        browsable = No
        comment = Home Directories
        inherit acls = Yes
        read only = No
        valid users = %S %D%u$S

[printers]
        browsable = No
        comment = All Printers
        create mask = 0660
        path = /var/tmp
        printable = Yes

[print$]
        comment = Printer Drivers
        create mask = 0664
        directory mask = 0775
        force group = printadmin
        path = /var/lib/samba/drivers
        write list = printadmin root

[sambashare]
        comment = My Samba Share
        path = /src/sambashare
        write list = @sambagroup
[root@server dmosharov.net ~]# ]
```

Рис. 4: Проверка конфигурации

# Запуск службы SMB

```
[root@server.dmmosharov.net ~]# systemctl start smb
[root@server.dmmosharov.net ~]# systemctl enable smb
Created symlink '/etc/systemd/system/multi-user.target.wants/smb.service' → '/usr/lib/systemd/system/smb.service'.
.
[root@server.dmmosharov.net ~]# systemctl status smb
● smb.service - Samba SMB Daemon
   Loaded: loaded (/usr/lib/systemd/system/smb.service)
   Active: active (running) since Mon 2026-02-02 12:03:33
     Invocation: f90c77d9295e4080a2ba6e817748ed
       Docs: man:smbd(8)
              man:samba(7)
              man:smb.conf(5)
    Main PID: 14754 (smbd)
      Status: "smbd: ready to serve connections..."
        Tasks: 3 (limit: 22836)
      Memory: 13.2M (peak: 13.7M)
        CPU: 58ms
      CGroup: /system.slice/smb.service
              └─14754 /usr/sbin/smbd --foreground --no-pid
                  ├─14757 /usr/sbin/smbd --foreground --no-pid
                  ├─14758 /usr/sbin/smbd --foreground --no-pid
                  └─14759 /usr/sbin/smbd --foreground --no-pid

Feb 02 12:03:33 server.dmmosharov.net systemd[1]: Start
Feb 02 12:03:33 server.dmmosharov.net systemd[1]: Start
lines 1-19/19 (END)
```

Рис. 5: Запуск службы SMB

## Проверка доступа через smbclient

```
[root@server.dmmosharov.net ~]# smbclient -L //server  
Password for [DMMOSHAROV-NET\root]:  
Anonymous login successful  
  
      Sharename          Type          Comment  
      -----          ----          -----  
      print$            Disk          Printer Drivers  
      sambashare        Disk          My Samba Share  
      IPC$              IPC           IPC Service (Samba 4.2  
2.4)  
SMB1 disabled -- no workgroup available  
[root@server.dmmosharov.net ~]# less /usr/lib/firewalld/  
services/samba.xml
```

**Рис. 6:** Проверка доступа через smbclient

## Файл конфигурации службы samba.xml

```
<?xml version="1.0" encoding="utf-8"?>
<service>
    <short>Samba</short>
    <description>This option allows you to access and participate in Windows file and printer sharing networks. You need the samba package installed for this option to be useful.</description>
    <include service="samba-client"/>
    <port protocol="tcp" port="139"/>
    <port protocol="tcp" port="445"/>
</service>
~
```

Рис. 7: Файл конфигурации службы samba.xml

## Настройка Firewall и прав доступа

```
[root@server.dmmosharov.net ~]# firewall-cmd --add-service=samba  
success  
[root@server.dmmosharov.net ~]# firewall-cmd --add-service=samba --permanent  
success  
[root@server.dmmosharov.net ~]# firewall-cmd --reload  
success  
[root@server.dmmosharov.net ~]# chgrp sambagroup /srv/sambashare  
[root@server.dmmosharov.net ~]# chmod g=rwx /srv/sambashare  
[root@server.dmmosharov.net ~]# cd /srv  
[root@server.dmmosharov.net srv]# ls -Z  
unconfined_u:object_r:nfs_t:s0 nfs  
unconfined_u:object_r:var_t:s0 sambashare  
[root@server.dmmosharov.net srv]# █
```

Рис. 8: Настройка Firewall и прав доступа

## Настройка контекста SELinux

```
[root@server.dmmosharov.net srv]# semanage fcontext -a -t samba_share_t "/srv/sambashare(/.*)?"  
[root@server.dmmosharov.net srv]# restorecon -vR /srv/sambashare  
Relabeled /srv/sambashare from unconfined_u:object_r:var_t:s0 to unconfined_u:object_r:samba_share_t:s0  
[root@server.dmmosharov.net srv]# cd /srv  
[root@server.dmmosharov.net srv]# ls -Z  
      unconfined_u:object_r:nfs_t:s0 nfs  
unconfined_u:object_r:samba_share_t:s0 sambashare  
[root@server.dmmosharov.net srv]# █
```

**Рис. 9:** Настройка контекста SELinux

## Настройка boolean SELinux

```
[root@server.dmmosharov.net srv]# setsebool samba_export_all_rw 1
[root@server.dmmosharov.net srv]# setsebool samba_export_all_rw 1 -P
[root@server.dmmosharov.net srv]# id
uid=0(root) gid=0(root) groups=0(root) context=unconfined_u:unconfined_r:unconfined_t:s0-s0:c0.c1023
[root@server.dmmosharov.net srv]# logout
[dmmosharov@server.dmmosharov.net ~]$ id
uid=1001(dmmosharov) gid=1001(dmmosharov) groups=1001(dmmosharov),10(wheel) context=unconfined_u:unconfined_r:unconfined_t:s0-s0:c0.c1023
[dmmosharov@server.dmmosharov.net ~]$ █
```

**Рис. 10:** Настройка boolean SELinux

## Создание тестового файла и SMB-пользователя

```
[dmmosharov@server.dmmosharov.net ~]$ cd /srv/sambashare
[dmmosharov@server.dmmosharov.net sambashare]$ touch user@server.txt
touch: cannot touch 'user@server.txt': Permission denied
[dmmosharov@server.dmmosharov.net sambashare]$ sudo touch user@server.txt
[sudo] password for dmmosharov:
[dmmosharov@server.dmmosharov.net sambashare]$ smbpasswd -L -a dmmosharov
smbpasswd -L can only be used by root.
[dmmosharov@server.dmmosharov.net sambashare]$ sudo smbpasswd -L -a dmmosharov
[sudo] password for dmmosharov:
New SMB password:
Retype new SMB password:
Added user dmmosharov.
[dmmosharov@server.dmmosharov.net sambashare]$ █
```

**Рис. 11:** Создание тестового файла и SMB-пользователя

# Установка пакетов на клиенте

```
[dmosharov@client.dmosharov.net ~]$ sudo dnf -y install samba-client cifs-utils
[sudo] password for dmosharov:
Last metadata expiration check: 0:14:34 ago on Mon 02 Feb 2026
12:22:01 PM UTC.
Dependencies resolved.
=====
                         Package          Arch      Version       Repository  Size
=====
Installing:
  cifs-utils        x86_64    7.2-1.el10          baseos     117 k
  samba-client      x86_64    4.22.4-106.el10      appstream   770 k
=====
Transaction Summary
=====
Install 2 Packages

Total download size: 887 k
Installed size: 3.0 M
Downloading Packages:
(1/2): samba-client-4.22.4-106.305.k8/s | 770 kB     00:02
(2/2): cifs-utils-7.2-1.el10.x86_64.k8/s | 117 kB     00:05
=====
Total                                         81 kB/s | 887 kB     00:10
Running transaction check
Transaction check succeeded.
Running transaction test
Transaction test succeeded.
Running transaction
  Preparing :                                     1/1
  Installing : samba-client-4.22.4-106.el10.x86_64 1/2
  Running scriptlet: samba-client-4.22.4-106.el10.x86_64 1/2
  Installing : cifs-utils-7.2-1.el10.x86_64        2/2
  Running scriptlet: cifs-utils-7.2-1.el10.x86_64 2/2
=====
Installed:
  cifs-utils-7.2-1.el10.x86_64
  samba-client-4.22.4-106.el10.x86_64

Complete!
[dmosharov@client.dmosharov.net ~]$ less /usr/lib/firewallld/services/samba-client.xml
```

Рис. 12: Установка пакетов на клиенте

## Просмотр samba-client.xml

```
<?xml version="1.0" encoding="utf-8"?>
<service>
    <short>Samba Client</short>
    <description>This option allows you to access Windows file and printer sharing networks. You need the samba-client package installed for this option to be useful.</description>
    <include service="netbios-ns"/>
    <port protocol="udp" port="138"/>
</service>
~
```

**Рис. 13:** Просмотр samba-client.xml

## Настройка окружения на клиенте

```
[root@client.dmmosharov.net ~]# firewall-cmd --add-service=samb  
a-client  
success  
[root@client.dmmosharov.net ~]# firewall-cmd --add-service=samb  
a-client --permanent  
success  
[root@client.dmmosharov.net ~]# firewall-cmd --reload  
success  
[root@client.dmmosharov.net ~]# groupadd -g 1010 sambagroup  
[root@client.dmmosharov.net ~]# usermod -aG sambagroup dmmoshar  
ov  
[root@client.dmmosharov.net ~]# nano /etc/samba/smb.conf
```

Рис. 14: Настройка окружения на клиенте

# Настройка рабочей группы на клиенте

```
GNU nano 8.1          /etc/samba/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 supp>
# SMB3 are no longer able to connect to smbd (by default).

[global]
        workgroup = DMMOSHAROV-NET
        security = user

        passdb backend = tdbsam

        printing = cups
        printcap name = cups
        load printers = yes
        cups options = raw
```

Рис. 15: Настройка рабочей группы на клиенте

## Проверка списка ресурсов сервера с клиента

```
[dmmosharov@client.dmmosharov.net ~]$ smbclient -L //server -U dmmosharov
Password for [DMMOSHAROV-NET\dmmosharov]:
Sharename          Type      Comment
-----            ----
print$             Disk      Printer Drivers
sambashare         Disk      My Samba Share
IPC$               IPC       IPC Service (Samba 4.22.4)
dmmosharov         Disk      Home Directories
SMB1 disabled -- no workgroup available
[dmmosharov@client.dmmosharov.net ~]$ █
```

**Рис. 16:** Проверка списка ресурсов сервера с клиента

# Ручное монтирование и проверка записи

```
[dmmosharov@client.dmmosharov.net ~]$ sudo mkdir /mnt/samba
[sudo] password for dmmosharov:
Sorry, try again.
[sudo] password for dmmosharov:
[dmmosharov@client.dmmosharov.net ~]$ mount -o username=dmmosharov,user,rw,uid=dmmosharov,gid=sambagroup //server/sambashare /mnt/samba
This program is not installed setuid root - "user" CIFS mounts
not supported.
mount: (hint) your fstab has been modified, but systemd still uses
the old version; use 'systemctl daemon-reload' to reload
.

[dmmosharov@client.dmmosharov.net ~]$ sudo mount -o username=dmmosharov,user,rw,uid=dmmosharov,gid=sambagroup //server/sambashare /mnt/samba
Password for dmmosharov@//server/sambashare:
mount: (hint) your fstab has been modified, but systemd still uses
the old version; use 'systemctl daemon-reload' to reload
.

[dmmosharov@client.dmmosharov.net ~]$ cd /mnt/samba
[dmmosharov@client.dmmosharov.net samba]$ touch dmmosharov@client.txt
[dmmosharov@client.dmmosharov.net samba]$ ls
dmmosharov@client.txt user@server.txt
[dmmosharov@client.dmmosharov.net samba]$ ls
dmmosharov@client.txt dmmosharov@server.txt
[dmmosharov@client.dmmosharov.net samba]$ cd ..
[dmmosharov@client.dmmosharov.net mnt]$ umount /mnt/samba
umount: /mnt/samba: must be superuser to umount.
[dmmosharov@client.dmmosharov.net mnt]$ sudo umount /mnt/samba
[dmmosharov@client.dmmosharov.net mnt]$
```

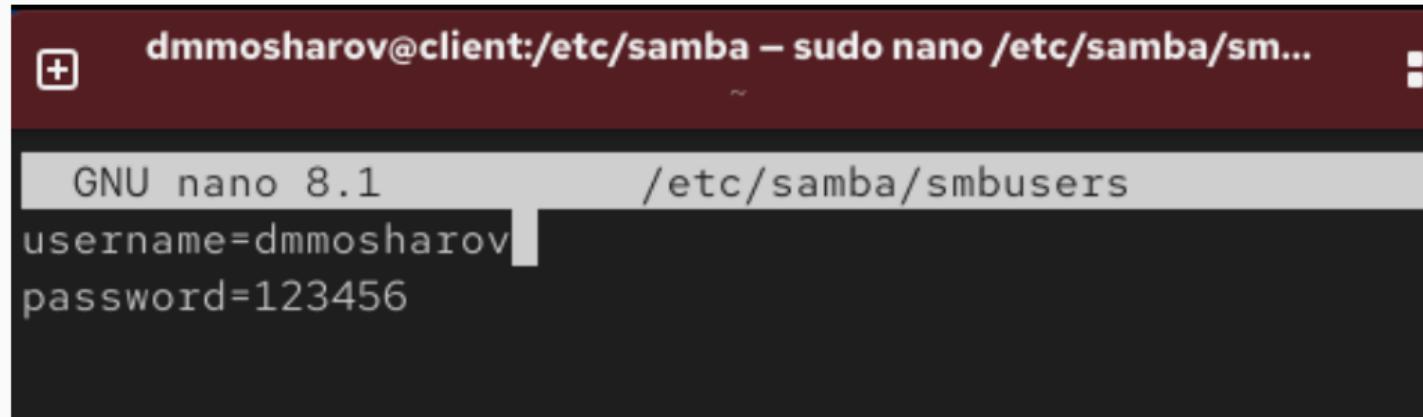
Рис. 17: Ручное монтирование и проверка записи

## Создание файла учетных данных

```
[dmmosharov@client.dmmosharov.net samba]$ sudo touch /etc/samba/  
/smbusers  
[dmmosharov@client.dmmosharov.net samba]$ chmod 600 /etc/samba/  
smbusers  
chmod: changing permissions of '/etc/samba/smbusers': Operation  
not permitted  
[dmmosharov@client.dmmosharov.net samba]$ sudo chmod 600 /etc/s  
amba/smbusers  
  
[dmmosharov@client.dmmosharov.net samba]$ sudo nano /etc/samba/  
smbusers  
[dmmosharov@client.dmmosharov.net samba]$
```

Рис. 18: Создание файла учетных данных

## Содержимое файла smbusers



The screenshot shows a terminal window with a dark background and light-colored text. At the top, it displays the user's session information: `dmmosharov@client:/etc/samba – sudo nano /etc/samba/sm...`. Below this, the title bar indicates the application is `GNU nano 8.1` and the file path is `/etc/samba/smbusers`. The main area of the terminal contains the following text:

```
username=dmmosharov
password=123456
```

**Рис. 19:** Содержимое файла smbusers

# Редактирование fstab

```
GNU nano 8.1                               /etc/fstab

#
# /etc/fstab
# Created by anaconda on Tue Nov 25 17:14:02 2025
#
# Accessible filesystems, by reference, are maintained under '/dev/disk/'.
# See man pages fstab(5), findfs(8), mount(8) and/or blkid(8) for more info.
#
# After editing this file, run 'systemctl daemon-reload' to update systemd
# units generated from this file.
#
UUID=d3e7b147-c1d6-424e-819d-7a2628a132ec /           xfs    defaults      0 0
UUID=86c00fec-6d70-4d3e-9d8f-62dca78372f5 /boot       xfs    defaults      0 0
UUID=3D80-501E        /boot/efi      vfat   umask=0077,shortname=winnt 0 2
UUID=e7ad08e1-c163-42a6-8723-3d23736bc2c9 /home       xfs    defaults      0 0
UUID=84ebe6ba-1981-4517-8c07-547bd3127c94 none     swap    defaults      0 0
server.dmmosharov.net:/srv/nfs /mnt/nfs nfs _netdev 0 0
#VAGRANT-BEGIN
# The contents below are automatically generated by Vagrant. Do not modify.
Vagrant /vagrant vboxsf uid=1000,gid=1000,_netdev 0 0
#VAGRANT-END
//server/sambashare /mnt/samba cifs user,rw,uid=dmmosharov,gid=sambagroup credentials=/etc/samba/smbuser
```

Рис. 20: Редактирование fstab

## Проверка автоматического монтирования

```
[dmmosharov@client.dmmosharov.net samba]$ sudo nano /etc/fstab  
[dmmosharov@client.dmmosharov.net samba]$ sudo mount -a  
[dmmosharov@client.dmmosharov.net samba]$ ls samba/  
ls: cannot access 'samba/': No such file or directory  
[dmmosharov@client.dmmosharov.net samba]$ cd ..  
[dmmosharov@client.dmmosharov.net mnt]$ ls samba/  
dmmosharov@client.txt dmmosharov@server.txt  
[dmmosharov@client.dmmosharov.net mnt]$ █
```

**Рис. 21:** Проверка автоматического монтирования

## Список файлов в общем ресурсе

```
Password:  
Last login: Mon Feb  2 12:36:15 UTC 2026 on pts/0  
[dmmosharov@client.dmmosharov.net ~]$ cd /mnt/samba  
[dmmosharov@client.dmmosharov.net samba]$ cd ..  
[dmmosharov@client.dmmosharov.net mnt]$ ls samba/  
dmmosharov@client.txt dmmosharov@server.txt  
[dmmosharov@client.dmmosharov.net mnt]$ █
```

Рис. 22: Список файлов в общем ресурсе

## Подготовка каталогов provision на сервере

```
[dmmosharov@server.dmmosharov.net sambashare]$ sudo touch dmmosharov@server.txt  
[dmmosharov@server.dmmosharov.net sambashare]$ cd /vagrant/provision/server  
[dmmosharov@server.dmmosharov.net server]$ mkdir -p /vagrant/provision/server/smb/etc/samba  
[dmmosharov@server.dmmosharov.net server]$ cp -R /etc/samba/smb.conf /vagrant/provision/server/smb/etc/samba/  
[dmmosharov@server.dmmosharov.net server]$ cd /vagrant/provision/server  
[dmmosharov@server.dmmosharov.net server]$ touch smb.sh  
[dmmosharov@server.dmmosharov.net server]$ sudo chmod +x smb.sh  
[sudo] password for dmmosharov:  
[dmmosharov@server.dmmosharov.net server]$ nano smb.sh
```

**Рис. 23:** Подготовка каталогов provision на сервере

# Скрипт smb.sh для сервера

```
GNU nano 8.1                                     smb.sh
#!/bin/bash
LOGIN=dmmosharov
PASS=123456

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
```

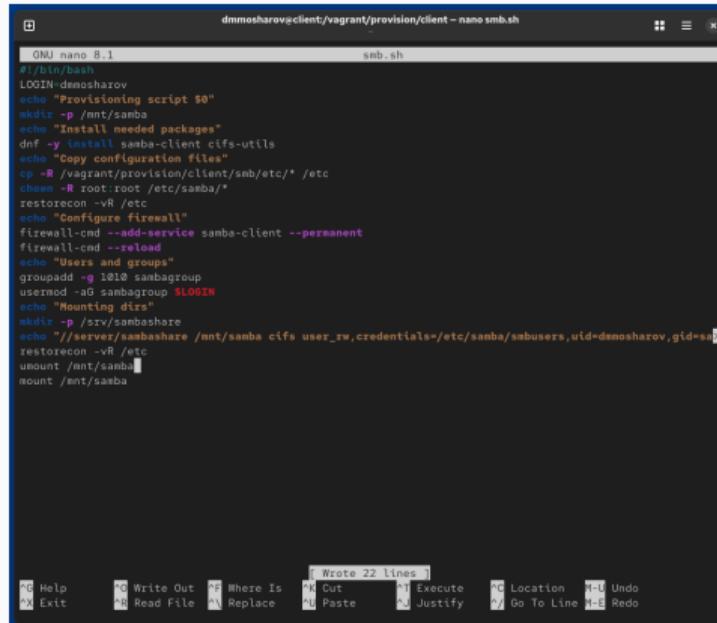
Рис. 24: Скрипт smb.sh для сервера

# Подготовка каталогов provision на клиенте

```
[dmmosharov@client.dmmosharov.net mnt]$ cd /vagrant/provision/client
[dmmosharov@client.dmmosharov.net client]$ mkdir -p /vagrant/provision/client/smb/etc/samba
[dmmosharov@client.dmmosharov.net client]$ cp -R /etc/samba/smb.conf /vagrant/provision/client/smb/etc/samba/
[dmmosharov@client.dmmosharov.net client]$ cp -R /etc/samba/smbusers /vagrant/provision/client/smb/etc/samba/
cp: cannot open '/etc/samba/smbusers' for reading: Permission denied
[dmmosharov@client.dmmosharov.net client]$ sudo cp -R /etc/samba/smbusers /vagrant/provision/client/smb/etc/samba/
[sudo] password for dmmosharov:
[dmmosharov@client.dmmosharov.net client]$ cd /vagrant/provision/client
[dmmosharov@client.dmmosharov.net client]$ touch smb.sh
[dmmosharov@client.dmmosharov.net client]$ chmod +x smb.sh
[dmmosharov@client.dmmosharov.net client]$ nano smb.sh
```

**Рис. 25:** Подготовка каталогов provision на клиенте

# Скрипт smb.sh для клиента



The screenshot shows a terminal window titled "dmmosharov@client:~/.vagrant/provision/client - nano smb.sh". The window displays a shell script named "smb.sh". The script performs several tasks:

- Installs the samba-client and cifs-utils packages.
- Creates a new group "sambagroup" and adds the user "slogin" to it.
- Mounts a Samba share from the server at "/server/sambashare" to the local directory "/mnt/samba".
- Configures the firewall to allow SMB traffic.
- Restores SELinux policies after each modification.

```
GNU nano 8.1
#!/bin/bash
LOGIN=dmmosharov
echo "Provisioning script $0"
mkdir -p /mnt/samba
echo "Install needed packages"
dnf -y install samba-client cifs-utils
echo "Copy configuration files"
cp -R /vagrant/provision/client/smb/etc/* /etc
chown -R root:root /etc/samba/*
restorecon -R /etc
echo "Configure firewall"
firewall-cmd --add-service samba-client --permanent
firewall-cmd --reload
echo "Users and groups"
groupadd -g 1010 sambagroup
usermod -aG sambagroup $LOGIN
echo "Mounting dirs"
mkdir -p /srv/sambashare
echo "//server/sambashare /mnt/samba cifs user_rw,credentials=/etc/samba/smbusers,uid=dmmosharov,gid=smb"
restorecon -R /etc
umount /mnt/samba
mount /mnt/samba

[ Wrote 22 Lines ]
^G Help      ^O Write Out  ^P Where Is  ^K Cut      ^T Execute  ^D Location  ^U Undo
^X Exit      ^R Read File  ^L Replace   ^I Paste    ^J Justify  ^V Go To Line  ^E Redo
```

Рис. 26: Скрипт smb.sh для клиента

# Обновленный Vagrantfile

```
12   server.vm.provision "shell",  
13     type: "shell",  
14     preserve_order: true,  
15     path: "provision/server/web.sh"  
16   end  
17  
18   # Client configuration  
19   config.vm.define "client", autostart: false do |client|  
20     client.vm.box = "rockylinux8iso"  
21     client.vm.hostname = "client"  
22  
23     client.vm.boot_timeout = 1440  
24  
25     client.vb.insert_key = false  
26     client.vb.username = "vagrant"  
27     client.vb.password = "vagrant"  
28  
29     client.vm.network "private_network",  
30       type: "dhcp",  
31       virtualbox_dhcp_interface: true  
32  
33     client.vm.provider "virtualbox" do |vb|  
34       vb.customize ["modifyvm", :id, "--vram", "1024"]  
35       vb.customize ["modifyvm", :id, "--vcpus", "2"]  
36     end  
37  
38     client.vm.provision "client_name",  
39       type: "shell",  
40       preserve_order: true,  
41       path: "provision/client/n1-dummy.sh"  
42  
43     client.vm.provision "client_routing",  
44       type: "shell",  
45       preserve_order: true,  
46       path: "provision/client/n1-routing.sh"  
47     client.vm.provision "client_mail",  
48       type: "shell",  
49       preserve_order: true,  
50       path: "provision/client/n1-mail.sh"  
51     client.vm.provision "client_ntp",  
52       type: "shell",  
53       preserve_order: true,  
54       path: "provision/client/ntp.sh"  
55  
56     client.vm.provision "client_rfs",  
57       type: "shell",  
58       preserve_order: true,  
59       path: "provision/client/rfs.sh"  
60  
61     client.vm.provision "web_client",  
62       type: "shell",  
63       preserve_order: true,  
64       path: "provision/client/web.sh"  
65   end  
66  
67
```

Рис. 27: Обновленный Vagrantfile

## Выводы

В результате выполнения лабораторной работы были получены навыки настройки и использования Samba