

Лабораторная работа №14

Дисциплина: Администрирование сетевых подсистем

Ибрахим Мохсейн Алькамаль

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Раздел 1

1. Цель работы

1.1 Цель работы

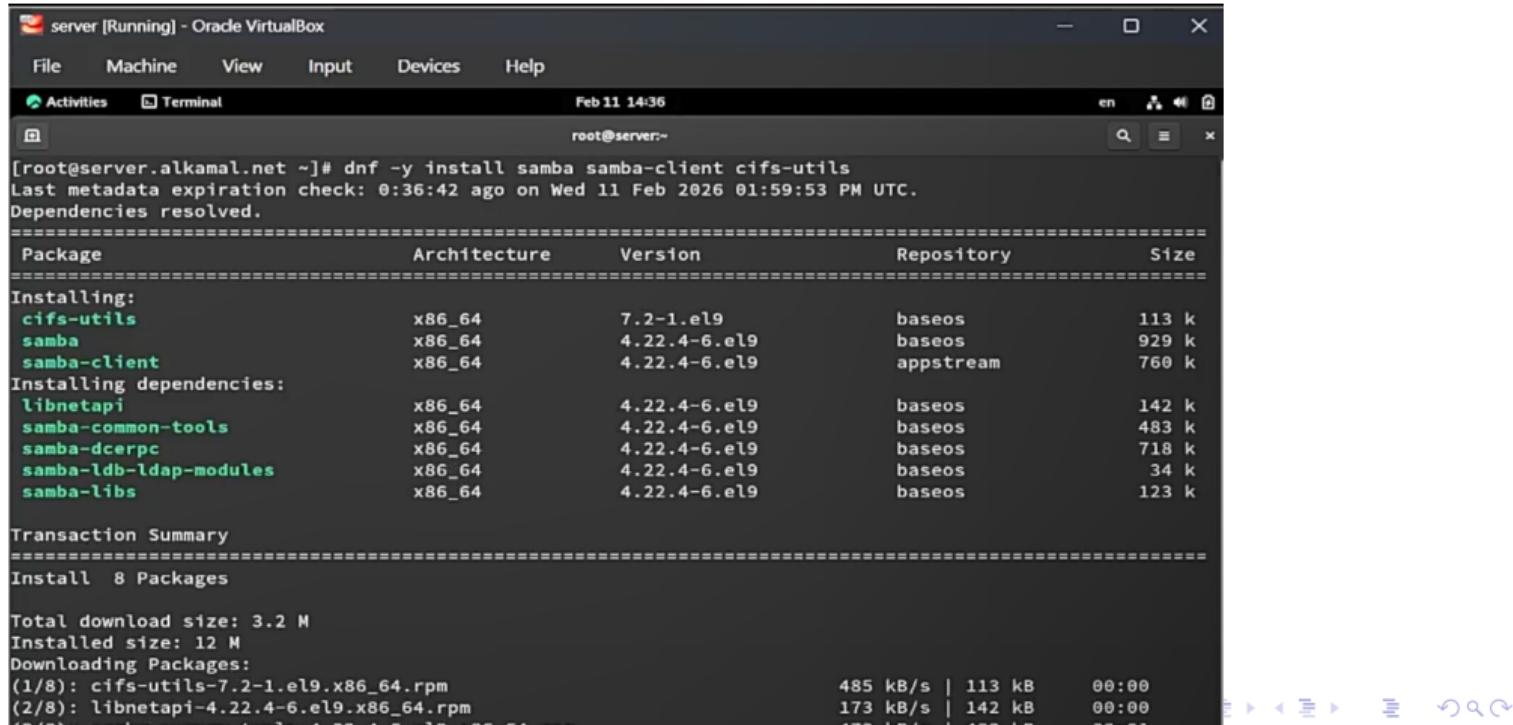
- Приобретение навыков настройки доступа групп пользователей к общим ресурсам по SMB
- Организация совместного доступа с разграничением прав

Раздел 2

2. Выполнение лабораторной работы

2.1 Настройка сервера Samba

- Установлены пакеты `samba`, `samba-client`, `cifs-utils` через `dnf`
- Транзакция установки завершена успешно

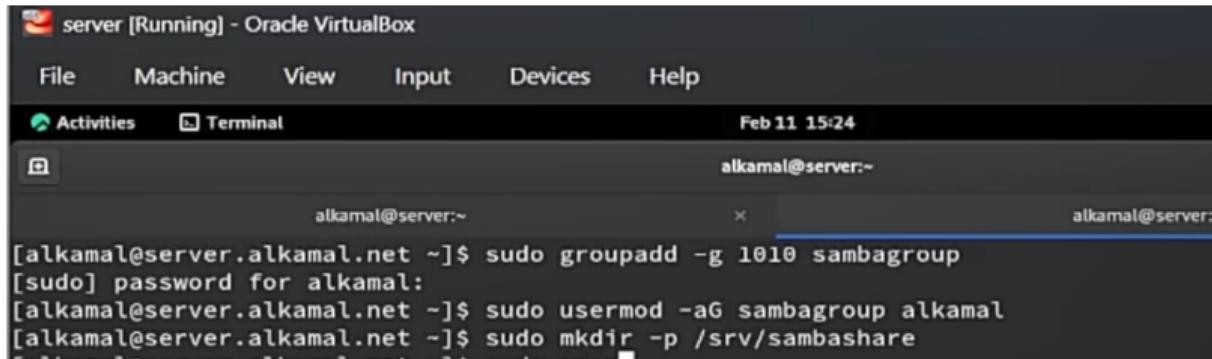


The screenshot shows a terminal window titled "server [Running] - Oracle VirtualBox". The terminal is running as root, indicated by the prompt "root@server:~". The user has run the command `dnf -y install samba samba-client cifs-utils`. The output shows the transaction details, including package names, architectures, versions, repositories, and sizes. It also lists dependencies being installed and provides a transaction summary.

```
[root@server.alkamal.net ~]# dnf -y install samba samba-client cifs-utils
Last metadata expiration check: 0:36:42 ago on Wed 11 Feb 2026 01:59:53 PM UTC.
Dependencies resolved.
=====
 Package           Architecture   Version        Repository      Size
=====
Installing:
  cifs-utils       x86_64        7.2-1.el9    baseos         113 k
  samba            x86_64        4.22.4-6.el9  baseos         929 k
  samba-client     x86_64        4.22.4-6.el9  appstream     760 k
Installing dependencies:
  libnetapi         x86_64        4.22.4-6.el9  baseos         142 k
  samba-common-tools x86_64        4.22.4-6.el9  baseos         483 k
  samba-dcerpc      x86_64        4.22.4-6.el9  baseos         718 k
  samba-ldb-ldap-modules x86_64        4.22.4-6.el9  baseos          34 k
  samba-libs        x86_64        4.22.4-6.el9  baseos         123 k
Transaction Summary
=====
Install 8 Packages

Total download size: 3.2 M
Installed size: 12 M
Downloading Packages:
(1/8): cifs-utils-7.2-1.el9.x86_64.rpm           485 kB/s | 113 kB   00:00
(2/8): libnetapi-4.22.4-6.el9.x86_64.rpm         173 kB/s | 142 kB   00:00
(3/8): samba-common-tools-4.22.4-6.el9.x86_64.rpm 473 kB/s | 483 kB   00:01
```

- Создана группа sambagroup (GID 1010)
- Пользователь alkamal добавлен в группу
- Создан каталог /srv/sambashare



server [Running] - Oracle VirtualBox

File Machine View Input Devices Help

Activities Terminal Feb 11 15:24

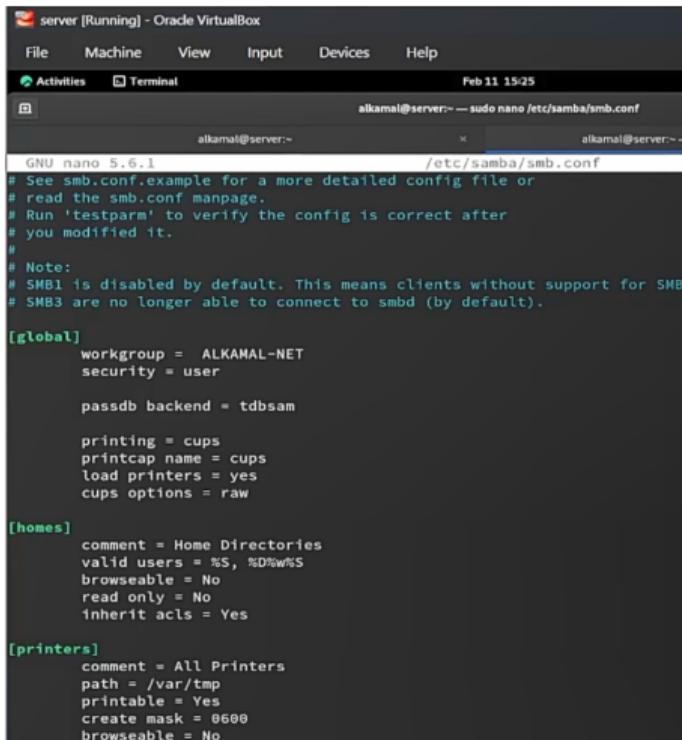
alkamal@server:~

```
alkamal@server:~ x alkamal@server:~
```

```
[alkamal@server.alkamal.net ~]$ sudo groupadd -g 1010 sambagroup
[sudo] password for alkamal:
[alkamal@server.alkamal.net ~]$ sudo usermod -aG sambagroup alkamal
[alkamal@server.alkamal.net ~]$ sudo mkdir -p /srv/sambashare
```

Рисунок 2: Создание группы sambagroup, добавление пользователя и каталога /srv/sambashare

- В smb.conf изменён workgroup = ALKAMAL-NET
- Добавлен раздел [sambashare]
- Указан путь /srv/sambashare
- Задан write list = @sambagroup



```

server [Running] - Oracle VirtualBox
File Machine View Input Devices Help
Activities Terminal Feb 11 15:25
alkamal@server:~$ sudo nano /etc/samba/smb.conf
GNU nano 5.6.1          alkamal@server:~$ /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 support for SMB2
# SMB3 are no longer able to connect to smbd (by default).

[global]
    workgroup = ALKAMAL-NET
    security = user

    passthru backend = tdbSAM

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

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

[printers]
    comment = All Printers
    path = /var/tmp
    printable = Yes
    create mask = 0600
    browsable = No

```

- Выполнена проверка testparm
- Ошибки конфигурации отсутствуют

```
[alkamal@server.alkamal.net ~]$ sudo 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 = ALKAMAL-NET
    idmap config * : backend = tdb
    cups options = raw

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

[printers]
    browsable = No
    comment = All Printers
    create mask = 0600
    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
```



- Запущена служба smb
- Добавлена в автозагрузку
- Статус active (running)

```
[alkamal@server.alkamal.net ~]$ sudo systemctl start smb
[alkamal@server.alkamal.net ~]$ sudo systemctl enable smb
[alkamal@server.alkamal.net ~]$ sudo systemctl status smb
● smb.service - Samba SMB Daemon
   Loaded: loaded (/usr/lib/systemd/system/smb.service; enabled; preset: disabled)
   Active: active (running) since Wed 2026-02-11 15:02:27 UTC; 23min ago
     Docs: man:smbd(8)
           man:samba(7)
           man:smb.conf(5)
   Main PID: 13330 (smbd)
      Status: "smbd: ready to serve connections..."
      Tasks: 3 (limit: 4493)
     Memory: 8.3M (peak: 9.1M)
        CPU: 30ms
      CGroup: /system.slice/smb.service
              └─13330 /usr/sbin/smbd --foreground --no-process-group
                  ├─13332 /usr/sbin/smbd --foreground --no-process-group
                  ├─13333 /usr/sbin/smbd --foreground --no-process-group
                  ├─13334 /usr/sbin/smbd --foreground --no-process-group

Feb 11 15:02:27 server.alkamal.net systemd[1]: Starting Samba SMB Daemon...
Feb 11 15:02:27 server.alkamal.net systemd[1]: Started Samba SMB Daemon.
[alkamal@server.alkamal.net ~]$
```

Рисунок 5: Запуск и проверка статуса службы smb через systemctl

- Выполнено `smbclient -L //server`
- Отображены ресурсы `print$`, `sambashare`, `IPC$`

```
[alkamal@server.alkamal.net ~]$ smbclient -L //server
Password for [ALKAMAL-NET\alkamal]:
Anonymous login successful

      Sharename          Type      Comment
      -----          ----      -----
      print$            Disk      Printer Drivers
      sambashare        Disk      My Samba Share
      IPC$              IPC       IPC Service (Samba 4.22.4)
SMB1 disabled -- no workgroup available
[alkamal@server.alkamal.net ~]$
```

Рисунок 6: Вывод команды `smbclient -L //server` со списком общих ресурсов

- Проверен файл samba.xml
- Используются порты TCP 139 и 445



```
<?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>
/usr/lib/firewalld/services/samba.xml (END)
```

Рисунок 7: Содержимое файла samba.xml с описанием портов 139 и 445

- В firewalld добавлена служба samba
- Применены постоянные правила
- Выполнен reload

```
[alkamal@server.alkamal.net ~]$ sudo firewall-cmd --add-service=samba
success
[alkamal@server.alkamal.net ~]$ sudo firewall-cmd --add-service=samba --permanent
success
[alkamal@server.alkamal.net ~]$ sudo firewall-cmd --reload
success
[alkamal@server.alkamal.net ~]$
```

Рисунок 8: Добавление службы samba в firewalld и перезагрузка конфигурации

- Изменена группа каталога на sambagroup
- Установлены права g=rwx
- Проверен SELinux-контекст

```
[alkamal@server.alkamal.net ~]$ sudo chgrp sambagroup /srv/sambashare
[alkamal@server.alkamal.net ~]$ sudo chmod g=rwx /srv/sambashare
[alkamal@server.alkamal.net ~]$ cd /srv
[alkamal@server.alkamal.net srv]$ ls -Z
unconfined_u:object_r:nfs_t:s0 nfs  unconfined_u:object_r:var_t:s0 sambashare
[alkamal@server.alkamal.net srv]$
```

Рисунок 9: Изменение группы и прав каталога sambashare, просмотр контекста SELinux

- Назначен контекст `samba_share_t`
- Применён `restorecon`

```
unconfined_u:object_r:var_t:s0    unconfined_u:object_r:var_t:s0 sambashare
[alkamal@server.alkamal.net srv]$ sudo semanage fcontext -a -t samba_share_t "/srv/sambashare(/.*)?"
[alkamal@server.alkamal.net srv]$ sudo restorecon -vR /srv/sambashare
Relabeled /srv/sambashare from unconfined_u:object_r:var_t:s0 to unconfined_u:object_r:samba_share_t:s0
[alkamal@server.alkamal.net srv]$ █ █
```

Рисунок 10: Настройка SELinux-контекста `samba_share_t` для каталога `sambashare`

- Проверен обновлённый SELinux-контекст
- Тип `samba_share_t` установлен

```
[alkamal@server.alkamal.net srv]$ cd /srv
[alkamal@server.alkamal.net srv]$ ls -Z
    unconfined_u:object_r:nfs_t:s0  nfs  unconfined_u:object_r:samba_share_t:s0  sambashare
[alkamal@server.alkamal.net srv]$
```

Рисунок 11: Проверка изменённого SELinux-контекста каталога `sambashare`

- Установлен булев параметр `samba_export_all_rw`
- Разрешён экспорт на чтение и запись

```
[alkamal@server.alkamal.net srv]$ sudo setsebool samba_export_all_rw 1  
[alkamal@server.alkamal.net srv]$ sudo setsebool samba_export_all_rw 1 -P  
[alkamal@server.alkamal.net srv]$ █
```

Рисунок 12: Установка SELinux-параметра `samba_export_all_rw`

- Проверена команда `id`
- Пользователь входит в `sambagroup`



The screenshot shows a terminal window titled "server [Running] - Oracle VirtualBox". The window has a dark theme. At the top, there are menu options: File, Machine, View, Input, Devices, Help. Below the menu is a toolbar with icons for Activities, Terminal, and a search bar. The status bar at the bottom shows the date and time: "Feb 11 15:43" and the user information: "alkamal@server:~". The main terminal area contains the following text:

```
[alkamal@server.alkamal.net ~]$ id  
uid=1001(alkamal) gid=1001(alkamal) groups=1001(alkamal),10(wheel),1010(sambagroup) context=unconfined_u:  
:unconfined_r:unconfined_t:s0-s0:c0.c1023  
[alkamal@server.alkamal.net ~]$
```

Рисунок 13: Вывод команды `id` с указанием UID и групп пользователя

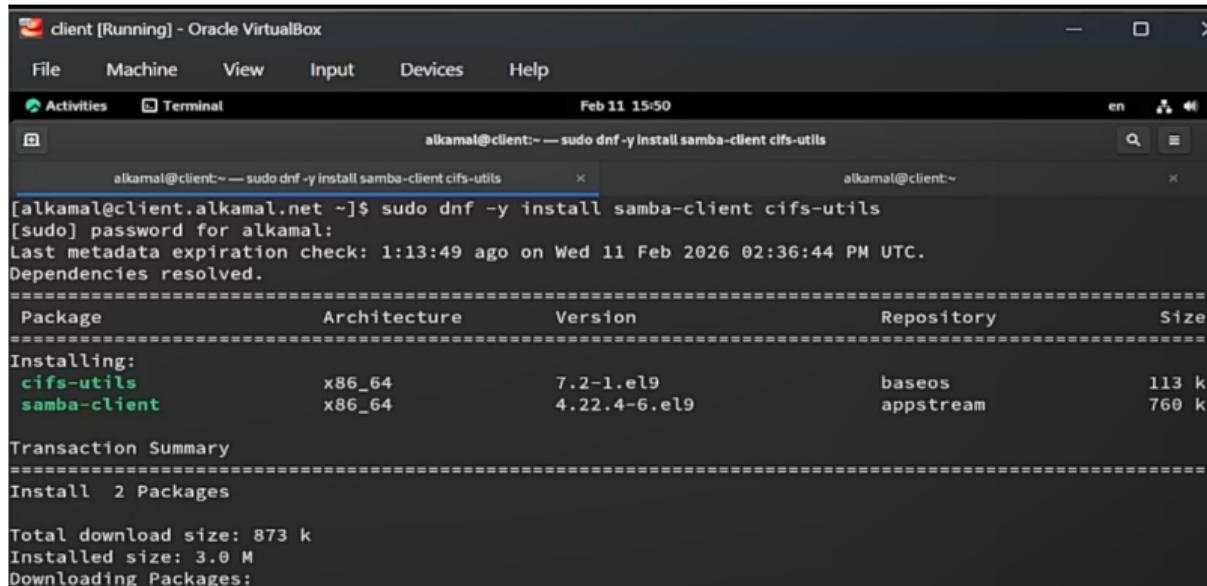
- Создан файл alkamal@server.txt в /srv/sambashare
- Выполнено smbpasswd -a alkamal
- Пользователь добавлен в базу Samba

```
[alkamal@server.alkamal.net ~]$ cd /srv/sambashare
[alkamal@server.alkamal.net sambashare]$ touch alkamal@server.txt
[alkamal@server.alkamal.net sambashare]$ sudo smbpasswd -L -a alkamal
[sudo] password for alkamal:
New SMB password:
Retype new SMB password:
Added user alkamal.
[alkamal@server.alkamal.net sambashare]$
```

Рисунок 14: Создание файла в каталоге sambashare и добавление пользователя в базу Samba

2.2 Монтирование файловой системы Samba на клиенте

- Установлены `samba-client` и `cifs-utils`
- Транзакция завершена успешно



The screenshot shows a terminal window titled "client [Running] - Oracle VirtualBox". The terminal output is as follows:

```
alikamal@client:~$ sudo dnf -y install samba-client cifs-utils
[alikamal@client.alikamal.net ~]$ sudo dnf -y install samba-client cifs-utils
[sudo] password for alikamal:
Last metadata expiration check: 1:13:49 ago on Wed 11 Feb 2026 02:36:44 PM UTC.
Dependencies resolved.
=====
Package           Architecture      Version       Repository      Size
=====
Installing:
cifs-utils        x86_64          7.2-1.el9     baseos          113 k
samba-client      x86_64          4.22.4-6.el9  appstream      760 k

Transaction Summary
=====
Install 2 Packages

Total download size: 873 k
Installed size: 3.0 M
Downloading Packages:
```

Рисунок 15: Установка пакетов `samba-client` и `cifs-utils` на клиенте

- Добавлена служба `samba-client` в `firewall`
- Применены постоянные правила

```
complete:  
[alkamal@client.alkamal.net ~]$ less /usr/lib/firewalld/services/samba-client.xml  
[alkamal@client.alkamal.net ~]$ firewall-cmd --add-service=samba-client  
success  
[alkamal@client.alkamal.net ~]$ sudo firewall-cmd --add-service=samba-client --permanent  
success  
[alkamal@client.alkamal.net ~]$ sudo firewall-cmd --reload  
success
```

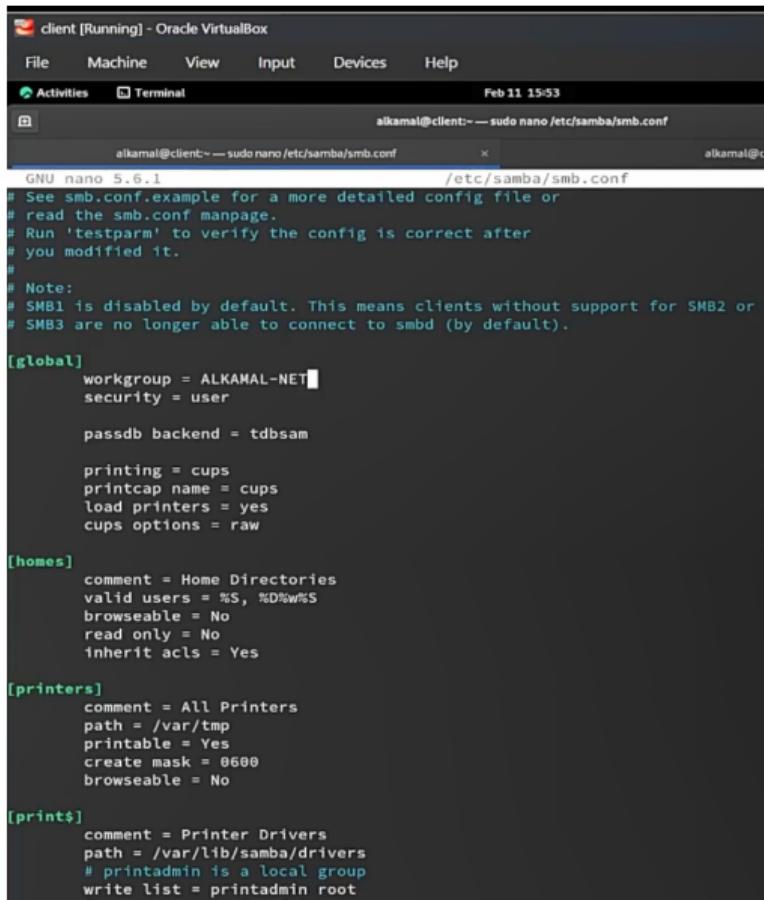
Рисунок 16: Настройка службы `samba-client` в `firewalld` на клиенте

- Создана группа sambagroup (GID 1010)
- Пользователь alkamal добавлен в группу

```
success
[alkamal@client.alkamal.net ~]$ sudo groupadd -g 1010 sambagroup
[alkamal@client.alkamal.net ~]$ sudo usermod -aG sambagroup alkamal
[alkamal@client.alkamal.net ~]$ █
```

Рисунок 17: Создание группы sambagroup и добавление пользователя на клиенте

- В smb.conf установлен workgroup = ALKAMAL-NET



```
client [Running] - Oracle VirtualBox
File Machine View Input Devices Help
Activities Terminal Feb 11 15:53
alkamal@client:~ — sudo nano /etc/samba/smb.conf
GNU nano 5.6.1 /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 support for SMB2 or
# SMB3 are no longer able to connect to smbd (by default).

[global]
    workgroup = ALKAMAL-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
```

- Выполнено `smbclient -L //server`
- Анонимный вход выполнен успешно

```
[alkamal@client.alkamal.net ~]$ smbclient -L //server
Password for [ALKAMAL-NET\alkamal]:
Anonymous login successful

      Sharename      Type      Comment
      -----      ----      -----
      print$        Disk      Printer Drivers
      sambashare    Disk      My Samba Share
      IPC$          IPC       IPC Service (Samba 4.22.4)
SMB1 disabled -- no workgroup available
[alkamal@client.alkamal.net ~]$
```

Рисунок 19: Просмотр ресурсов сервера через `smbclient` под анонимной учётной записью

- Создан каталог /mnt/samba
- Выполнено монтирование //server/sambashare
- Указаны параметры username, uid, gid

```
[alkamal@client.alkamal.net ~]$ sudo mkdir /mnt/samba
[alkamal@client.alkamal.net ~]$ sudo mount -o username=alkamal,user,rw,uid=alkamal,gid=sambagroup //server/sambashare /mnt/samba
Password for alkamal@//server/sambashare:
[alkamal@client.alkamal.net ~]$
```

Рисунок 20: Монтирование ресурса //server/sambashare в /mnt/samba

- В /mnt/samba создан файл alkamal@client.txt
- Подтверждены права записи
- Выполнен umount

```
[password for alkamal@client.alkamal.net] $ cd /mnt/samba
[alkamal@client.alkamal.net ~]$ touch alkamal@client.txt
[alkamal@client.alkamal.net samba]$ sudo umount /mnt/samba
umount: /mnt/samba: target is busy.
```

Рисунок 21: Создание файла на смонтированном ресурсе и размонтирование

- Создан файл /etc/samba/smbusers
- Права 600
- Указаны username и password

The screenshot shows a Linux desktop environment with a window titled "client [Running] - Oracle VirtualBox". Inside the window, there is a terminal window with the following content:

```
alkamal@client:~ — sudo nano /etc/samba/smbusers
GNU nano 5.6.1
username=alkamal
password=123456
/etc/samba/smbusers
```

Рисунок 22: Создание файла smbusers с учётными данными

- В `/etc/fstab` добавлена запись для `//server/sambashare`
- Тип `cifs`, указаны `uid`, `gid`, `credentials`, `_netdev`

```

client [Running] - Oracle VirtualBox
File Machine View Input Devices Help
Activities Terminal Feb 11 16:01
en 🔍 ⓘ
alkamal@client:~ — sudo nano /etc/fstab
alkamal@client:~ — sudo nano /etc/fstab
GNU nano 5.6.1 /etc/fstab Modified
/etc/fstab
#
# /etc/fstab
# Created by anaconda on Fri Feb 6 01:52:40 2026
#
# 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=f93095b3-9d30-43f4-b9e7-d0ab51fd6bc3 / xfs defaults 0 0
/swappfile none swap defaults 0 0
server.alkamal.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=alkamal,gid=sambagroup,credentials=/etc/samba/smbusers,_

```

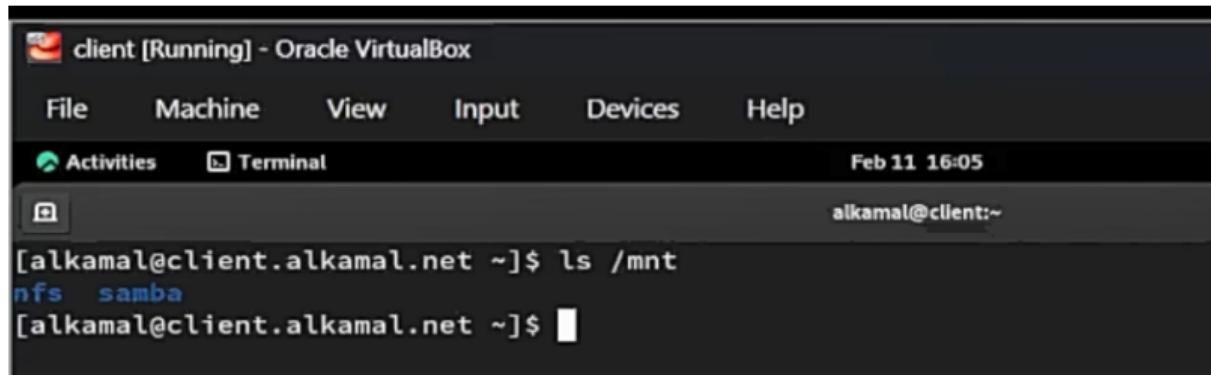
Рисунок 23: Добавление записи в `/etc/fstab` для автоматического монтирования Samba

- Выполнено `mount -a`
- Применена конфигурация

```
[alkamal@client.alkamal.net ~]$ sudo mount -a
mount: (hint) your fstab has been modified, but systemd still uses
      the old version; use 'systemctl daemon-reload' to reload.
```

Рисунок 24: Применение конфигурации fstab с помощью `mount -a`

- Проверено наличие /mnt/samba
- Ресурс подключён успешно



The screenshot shows a Linux desktop environment with a dark theme. At the top is a horizontal menu bar with icons for File, Machine, View, Input, Devices, and Help. Below the menu bar is a dock with icons for Activities and Terminal. The main area is a terminal window titled 'Terminal'. The terminal window has a black background and white text. It displays the command 'ls /mnt' and its output, which shows two directories: 'nfs' and 'samba'. The terminal window title bar also shows the user's name 'alkamal@client' and the host name 'client.alkamal.net'. The status bar at the bottom of the terminal window shows the date and time 'Feb 11 16:05'.

```
[alkamal@client.alkamal.net ~]$ ls /mnt
nfs  samba
[alkamal@client.alkamal.net ~]$
```

Рисунок 25: Проверка наличия точки монтирования /mnt/samba

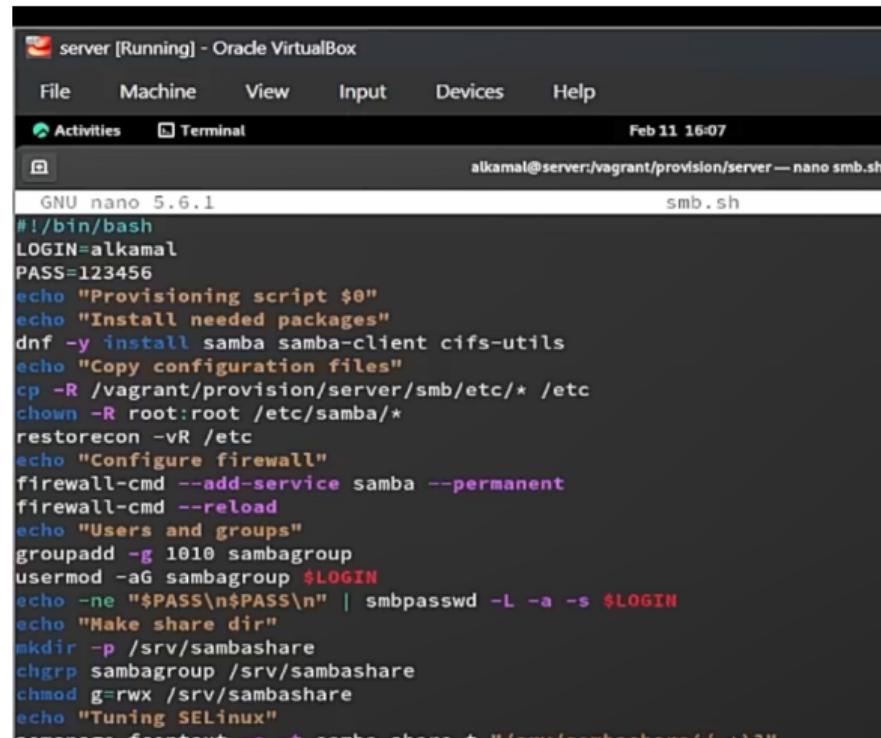
2.3 Внесение изменений в настройки внутреннего

- В /vagrant/provision/server создан каталог smb/etc/samba
- Скопирован smb.conf

```
[root@server alkamal]# cd /vagrant/provision/server
[alkamal@server.alkamal.net server]$ mkdir -p /vagrant/provision/server/smb/etc/samba
[alkamal@server.alkamal.net server]$ cp -R /etc/samba/smb.conf /vagrant/provision/server/smb/etc/samba/
[alkamal@server.alkamal.net server]$ cd /vagrant/provision/server
[alkamal@server.alkamal.net server]$ touch smb.sh
[alkamal@server.alkamal.net server]$ chmod +x smb.sh
[alkamal@server.alkamal.net server]$ nano smb.sh
```

Рисунок 26: Создание каталога smb и копирование smb.conf на сервере

- Создан скрипт `smb.sh` для сервера
- Реализованы установка, настройка firewall, SELinux
- Создана группа и добавлен пользователь
- Запущена служба `smb`



```

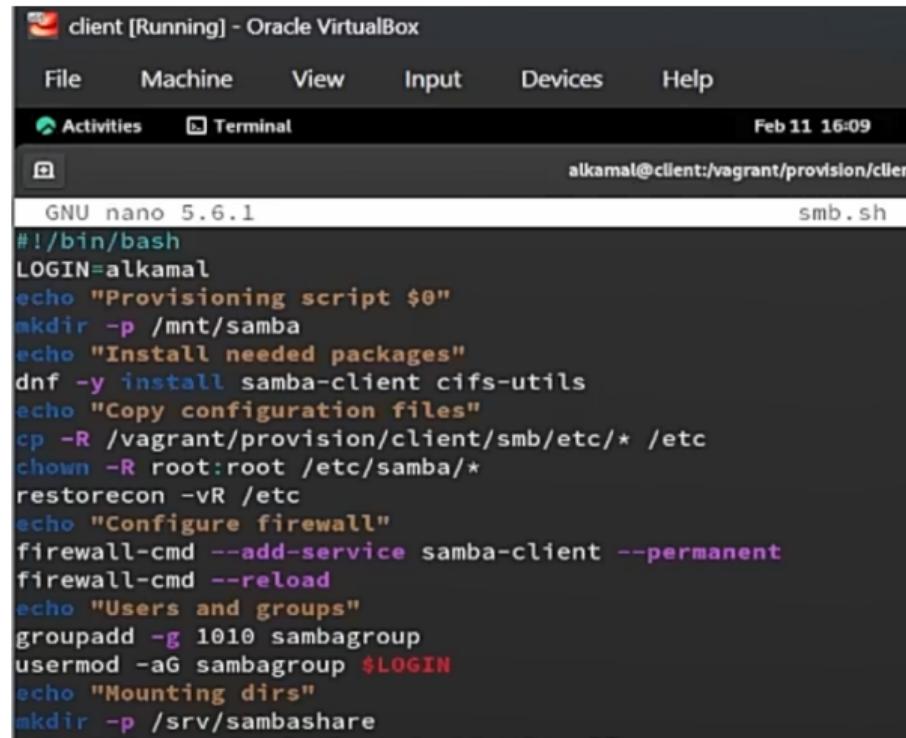
server [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities Terminal Feb 11 16:07
alkamal@server:/vagrant/provision/server -- nano smb.sh
GNU nano 5.6.1
smb.sh
#!/bin/bash
LOGIN=alkamal
PASS=123456
echo "Provisioning script $0"
echo "Install needed packages"
dnf -y install 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 $LOGIN
echo -e "$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(/+)"
```

- На клиенте создан каталог `smb/etc/samba`
- Скопированы `smb.conf` и `smbusers`

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

Рисунок 28: Подготовка каталога `smb` и копирование конфигурационных файлов на клиенте

- Создан скрипт `smb.sh` для клиента
- Реализованы установка пакетов, настройка firewall
- Добавлена запись в `/etc/fstab`
- Выполнено монтирование ресурса



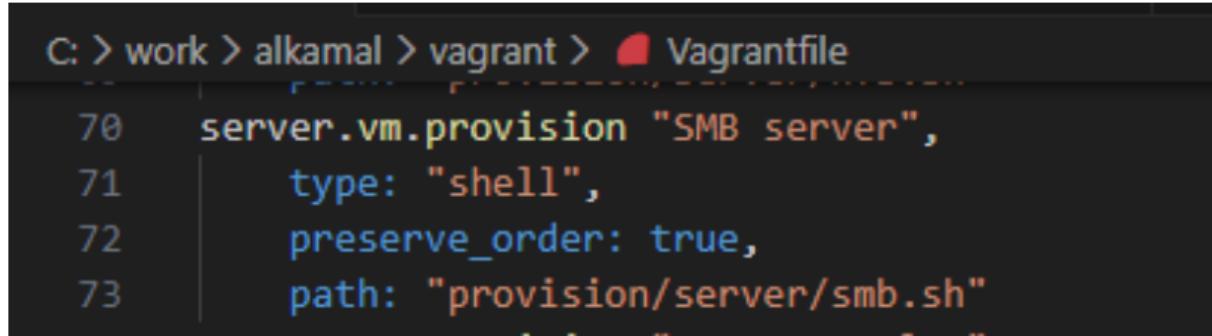
The screenshot shows a terminal window with the title "client [Running] - Oracle VirtualBox". The window has a menu bar with "File", "Machine", "View", "Input", "Devices", and "Help". Below the menu is a toolbar with "Activities" and "Terminal". The status bar at the top right shows the date and time: "Feb 11 16:09". The terminal window itself has a header bar with "GNU nano 5.6.1" on the left and "smb.sh" on the right. The main area of the terminal contains the following shell script code:

```

#!/bin/bash
LOGIN=alkamal
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 -vR /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

```

- В Vagrantfile добавлен provision-блок для server



```
C: > work > alkamal > vagrant > Vagrantfile
70     server.vm.provision "SMB server",
71         type: "shell",
72         preserve_order: true,
73         path: "provision/server/smb.sh"
```

Рисунок 30: Добавление provision-блока для сервера в Vagrantfile

- Добавлен provision-блок для client
- Обеспечена автоматическая настройка

```
C: > work > alkamal > vagrant > Vagrantfile
131   client.vm.provision "SMB client",
132     type: "shell",
133     preserve_order: true,
134     path: "provision/client/smb.sh"
```

Рисунок 31: Добавление provision-блока для клиента в Vagrantfile

Раздел 3

3. Выводы

3.1 Выводы

- Настроен сервер Samba с общим ресурсом `/srv/sambashare`
- Создана группа `sambagroup` и настроены права доступа
- Назначен SELinux-контекст `samba_share_t`
- Разрешён доступ через `firewall`
- Настроено монтирование ресурса на клиенте через CIFS
- Реализовано автоматическое подключение через `/etc/fstab`
- Выполнена автоматизация конфигурации через provisioning-скрипты
- Подтверждена возможность чтения и записи файлов по SMB