Лабораторная работа №14 Настройка файловых служб Samba

Жаворонков Кирилл Александрович

1132231844

НПИбд-01-23

Настройка сервера Samba

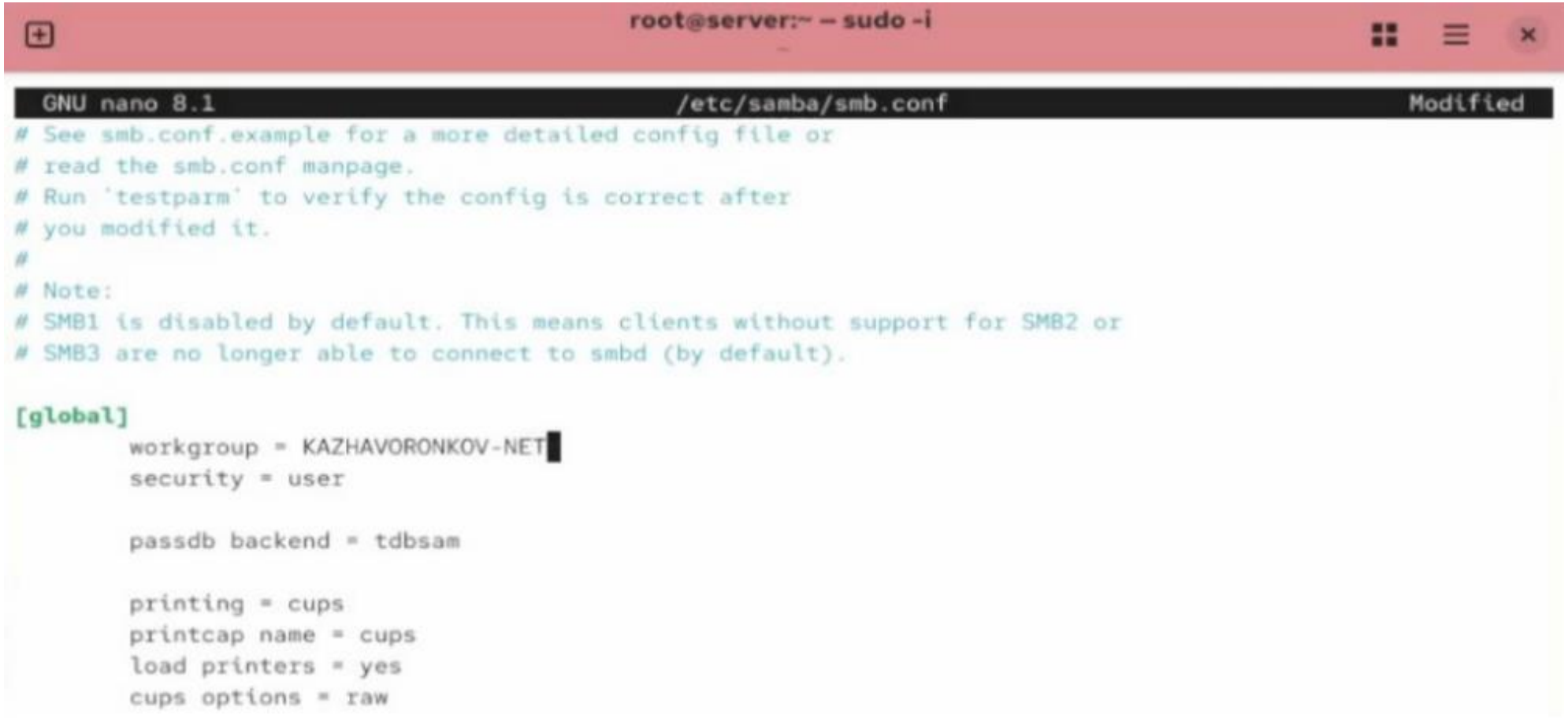
```
[root@server.kazhavoronkov.net ~]# dnf -y install samba samba-client cifs-utils
Last metadata expiration check: 2:19:54 ago on Sat 06 Dec 2025 12:10:53 PM UTC.
Dependencies resolved.
================================================================================
 Package                 Architecture    Version                 Repository    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

Total download size: 3.3 M
Installed size: 12 M
Downloading Packages:
(1/8): cifs-utils-7.2-1.el10.x86_64.rpm          171 kB/s | 117 kB     00:00
(2/8): libnetapi-4.22.4-106.el10.x86_64.rpm      195 kB/s | 144 kB     00:00
(3/8): samba-4.22.4-106.el10.x86_64.rpm          936 kB/s | 959 kB     00:01
(4/8): samba-common-tools-4.22.4-106.el10.x86_64.rpm  1.4 MB/s | 481 kB  00:00
```

Рис. 1.1. Установка на сервере необходимых пакетов samba samba-client cifs- utils.

Настройка сервера Samba

```
[root@server.kazhavoronkov.net ~]# groupadd -g 1010 sambagroup
[root@server.kazhavoronkov.net ~]# usermod -aG sambagroup kazhavoronkov
[root@server.kazhavoronkov.net ~]# mkdir -p /srv/sambashare
[root@server.kazhavoronkov.net ~]#
```

Настройка сервера Samba



Настройка сервера Samba

Настройка сервера Samba

```
[root@server.kazhavoronkov.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
```

Настройка сервера Samba

```
[root@server.kazhavoronkov.net ~]# systemctl start smb
[root@server.kazhavoronkov.net ~]# systemctl enable smb
Created symlink '/etc/systemd/system/multi-user.target.wants/smb.service' → '/usr/lib/systemd/system/smb.se
rvice'.
[root@server.kazhavoronkov.net ~]# systemctl status smb
● smb.service - Samba SMB Daemon
     Loaded: loaded (/usr/lib/systemd/system/smb.service; enabled; preset: disabled)
     Active: active (running) since Sat 2025-12-06 14:35:21 UTC; 20s ago
 Invocation: f8bc2fb7095c4789bc2dfe95cf490668
       Docs: man:smbd(8)
             man:samba(7)
             man:smb.conf(5)
   Main PID: 18149 (smbd)
     Status: "smbd: ready to serve connections..."
      Tasks: 3 (limit: 10691)
     Memory: 13.5M (peak: 13.7M)
        CPU: 77ms
     CGroup: /system.slice/smb.service
             ├─18149 /usr/sbin/smbd --foreground --no-process-group
             ├─18152 /usr/sbin/smbd --foreground --no-process-group
             └─18153 /usr/sbin/smbd --foreground --no-process-group

Dec 06 14:35:21 server.kazhavoronkov.net systemd[1]: Starting smb.service - Samba SMB Daemon...
Dec 06 14:35:21 server.kazhavoronkov.net systemd[1]: Started smb.service - Samba SMB Daemon.
[root@server.kazhavoronkov.net ~]#
```

Настройка сервера Samba

```
[root@server.kazhavoronkov.net ~]# smbclient -L //server
Password for [KAZHAVORONKOV-NET\root]:
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
[root@server.kazhavoronkov.net ~]#
```

Настройка сервера Samba

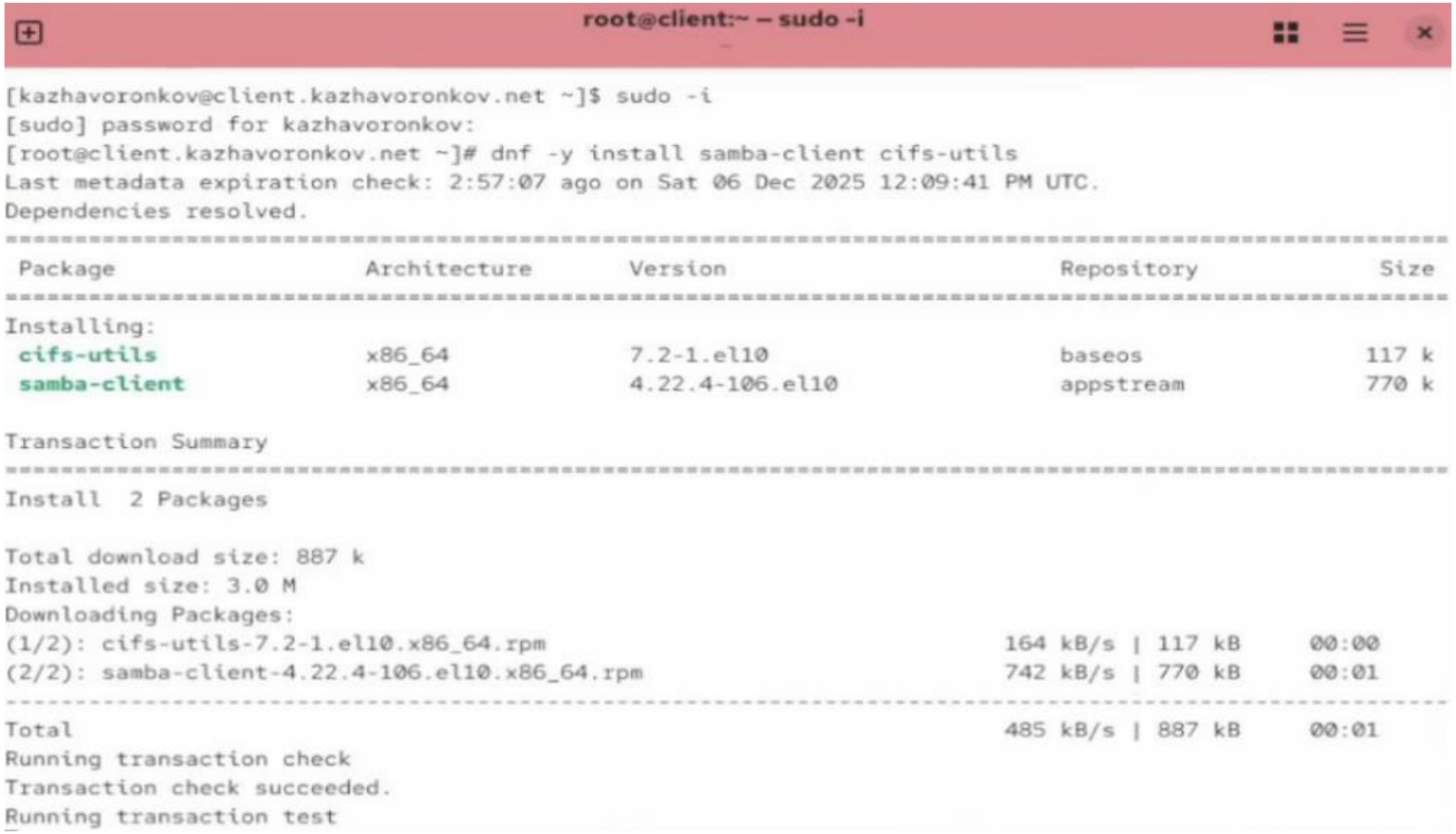
Настройка сервера Samba

```
[root@server.kazhavoronkov.net ~]# firewall-cmd --add-service=samba
success
[root@server.kazhavoronkov.net ~]# firewall-cmd --add-service=samba --permanent
success
[root@server.kazhavoronkov.net ~]# firewall-cmd --reload
success
[root@server.kazhavoronkov.net ~]#
```

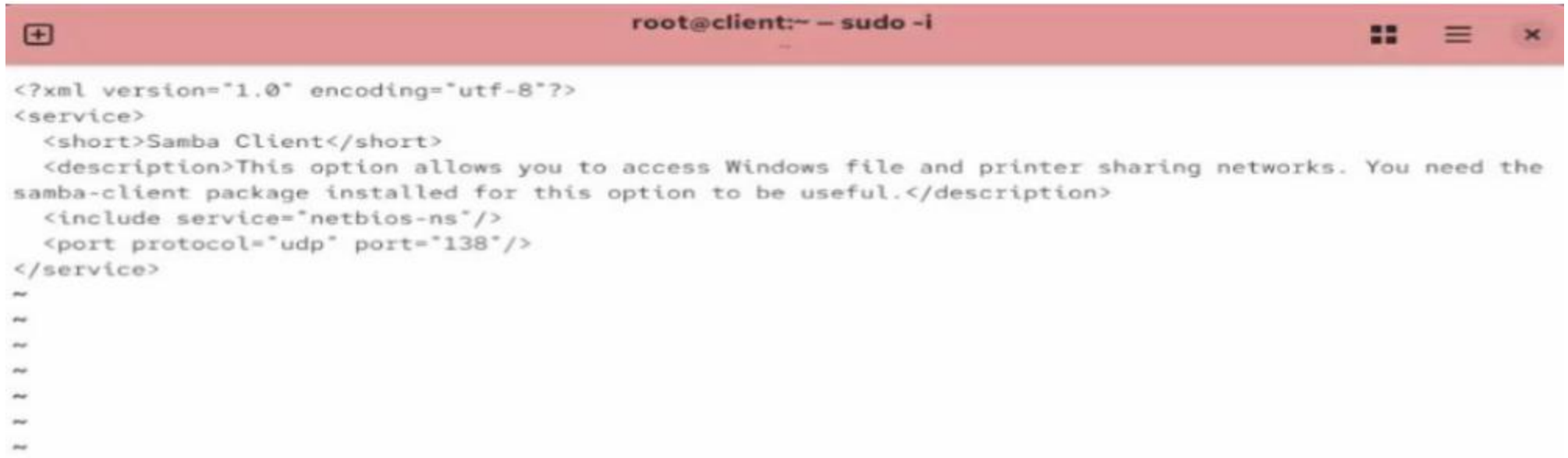
Настройка сервера Samba

```
[root@server.kazhavoronkov.net ~]# chgrp sambagroup /srv/sambashare
[root@server.kazhavoronkov.net ~]# chmod g=rwx /srv/sambashare
[root@server.kazhavoronkov.net ~]# cd /srv
[root@server.kazhavoronkov.net srv]# ls -Z
unconfined_u:object_r:nfs_t:s0 nfs  unconfined_u:object_r:var_t:s0 sambashare
[root@server.kazhavoronkov.net srv]# semanage fcontext -a -t samba_share_t "/srv/sambashare(/.*)?"
[root@server.kazhavoronkov.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.kazhavoronkov.net srv]# ls -Z
        unconfined_u:object_r:nfs_t:s0 nfs  unconfined_u:object_r:samba_share_t:s0 sambashare
[root@server.kazhavoronkov.net srv]# setsebool samba_export_all_rw 1
[root@server.kazhavoronkov.net srv]# setsebool samba_export_all_rw 1 -P
[root@server.kazhavoronkov.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.kazhavoronkov.net srv]#
```

Монтирование файловой системы Samba на клиенте



Монтирование файловой системы Samba на клиенте



Монтирование файловой системы Samba на клиенте

```
[root@client.kazhavoronkov.net ~]# firewall-cmd --add-service=samba-client
success
[root@client.kazhavoronkov.net ~]# firewall-cmd --add-service=samba-client --permanent
success
[root@client.kazhavoronkov.net ~]# firewall-cmd --reload
success
[root@client.kazhavoronkov.net ~]# groupadd -g 1010 sambagroup
[root@client.kazhavoronkov.net ~]# usermod -aG sambagroup kazhavoronkov
[root@client.kazhavoronkov.net ~]#
```

Монтирование файловой системы Samba на клиенте

Монтирование файловой системы Samba на клиенте

```
[root@client.kazhavoronkov.net ~]# smbclient -L //server
Password for [KAZHAVORONKOV-NET\root]:
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
```

Монтирование файловой системы Samba на клиенте

```
Password for [KAZHAVORONKOV-NET\root]:
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
[root@client.kazhavoronkov.net ~]# smbclient -L //server -U user
Password for [KAZHAVORONKOV-NET\user]:
session setup failed: NT_STATUS_LOGON_FAILURE
[root@client.kazhavoronkov.net ~]# smbclient -L //server -U kazhavoronkov
Password for [KAZHAVORONKOV-NET\kazhavoronkov]:

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

Монтирование файловой системы Samba на клиенте

```
[root@client.kazhavoronkov.net samba]# touch /etc/samba/smbusers
[root@client.kazhavoronkov.net samba]# chmod 600 /etc/samba/smbusers
[root@client.kazhavoronkov.net samba]#
```

Монтирование файловой системы Samba на клиенте

Монтирование файловой системы Samba на клиенте

Монтирование файловой системы Samba на клиенте

```
[root@client.kazhavoronkov.net samba]# systemctl daemon-reload
[root@client.kazhavoronkov.net samba]# mount -a
[root@client.kazhavoronkov.net samba]#
```

Внесение изменений в настройки внутреннего окружения виртуальных машин

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

Внесение изменений в настройки внутреннего окружения виртуальных машин

Внесение изменений в настройки внутреннего окружения виртуальных машин

```
[root@client.kazhavoronkov.net ~]# cd /vagrant/provision/client
[root@client.kazhavoronkov.net client]# mkdir -p /vagrant/provision/client/smb/etc/samba
[root@client.kazhavoronkov.net client]# cp -R /etc/samba/smb.conf /vagrant/provision/client/smb/etc/samb
a/
[root@client.kazhavoronkov.net client]# cp -R /etc/samba/smbusers /vagrant/provision/client/smb/etc/samb
a/
[root@client.kazhavoronkov.net client]# touch smb.sh
[root@client.kazhavoronkov.net client]# chmod +x smb.sh
[root@client.kazhavoronkov.net client]# nano
```

Внесение изменений в настройки внутреннего окружения виртуальных машин

Внесение изменений в настройки внутреннего окружения виртуальных машин

```
server.vm.provision "SMB server",
                    type: "shell",
                    preserve_order: true,
                    path: "provision/server/smb.sh"
```

```
client.vm.provision "SMB client",
                    type: "shell",
                    preserve_order: true,
                    path: "provision/client/smb.sh"
```