

Защита лабораторной работы № 14

Настройка файловых служб Samba

Администрирование сетевых подсистем

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Цель работы

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

Настройка сервера Samba

```
[saismael@server.saismael.net ~]$ sudo -i
[sudo] password for saismael:
[root@server.saismael.net ~]# dnf -y install samba samba-client cifs-utils
Last metadata expiration check: 1:53:03 ago on Sat 24 Dec 2022 03:18:26 PM UTC.
Dependencies resolved.
```

Package	Arch	Version	Repository	Size
Installing:				
cifs-utils	x86_64	6.14-1.el9	baseos	93 k
samba	x86_64	4.16.4-101.el9	baseos	1.4 M
samba-client	x86_64	4.16.4-101.el9	appstream	656 k
Upgrading:				
libtevent	x86_64	0.12.0-0.el9	baseos	44 k
Installing dependencies:				
python3-dns	noarch	2.1.0-6.el9	baseos	306 k
python3-ldb	x86_64	2.5.2-1.el9	baseos	54 k
python3-samba	x86_64	4.16.4-101.el9	baseos	3.2 M
python3-talloc	x86_64	2.3.3-1.el9	baseos	21 k
python3-tdb	x86_64	1.4.6-1.el9	baseos	22 k
python3-tevent	x86_64	0.12.0-0.el9	baseos	19 k
samba-common-tools	x86_64	4.16.4-101.el9	baseos	464 k
samba-libs	x86_64	4.16.4-101.el9	baseos	140 k
tdb-tools	x86_64	1.4.6-1.el9	baseos	35 k

Transaction Summary

```
Install 12 Packages
Upgrade 1 Package
```

Total download size: 6.5 M

Downloading Packages:

(1/13): cifs-utils-6.14-1.el9.x86_64.rpm	49 kB/s 93 kB	00:01
(2/13): samba-libs-4.16.4-101.el9.x86_64.rpm	68 kB/s 140 kB	00:02
(3/13): samba-common-tools-4.16.4-101.el9.x86_64.rpm	189 kB/s 464 kB	00:02
(4/13): samba-4.16.4-101.el9.x86_64.rpm	1.7 MB/s 1.4 MB	00:00
(5/13): tdb-tools-1.4.6-1.el9.x86_64.rpm	105 kB/s 35 kB	00:00

```
complete.
[root@server.saismael.net ~]#
[root@server.saismael.net ~]# groupadd -g 1010 sambagroup
[root@server.saismael.net ~]# usermod -aG sambagroup saismael
[root@server.saismael.net ~]# mkdir -p /srv/sambashare
[root@server.saismael.net ~]# testparm
Load smb config files from /etc/samba/smb.conf
loaded services file OK.
Weak crypto is allowed
```

Server role: ROLE_STANDALONE

Press enter to see a dump of your service definitions

```
Global parameters
[global]
```

```
printcap name = cups
security = USER
workgroup = SAISMAEL-NET
idmap config * : backend = tdb
cups options = raw
```

```
homes]
```

```
browseable = No
comment = Home Directories
inherit acls = Yes
read only = No
valid users = %S %D%W%S
```

```
printers]
```

```
browseable = No
```

Настройка сервера Samba

```
[root@server.saismael.net ~]# systemctl start smb
[root@server.saismael.net ~]# systemctl enable smb
Created symlink /etc/systemd/system/multi-user.target.wants/smb.service → /usr/lib/systemd/system/smb.service.
[root@server.saismael.net ~]# systemctl status smb
● smb.service - Samba SMB Daemon
   Loaded: loaded (/usr/lib/systemd/system/smb.service; enabled; vendor preset: disabled)
   Active: active (running) since Sat 2022-12-24 17:27:55 UTC; 27min ago
     Docs: man:smbd(8)
           man:samba(7)
           man:smb.conf(5)
  Main PID: 8966 (smbd)
    Status: "smbd: ready to serve connections..."
     Tasks: 3 (limit: 5789)
    Memory: 9.6M
       CPU: 2.854s
    CGroup: /system.slice/smb.service
            └─8966 /usr/sbin/smbd --foreground --no-process-group
              └─8968 /usr/sbin/smbd --foreground --no-process-group
                └─8969 /usr/sbin/smbd --foreground --no-process-group

Dec 24 17:27:54 server.saismael.net systemd[1]: Starting Samba SMB Daemon...
Dec 24 17:27:54 server.saismael.net smbd[8966]: [2022/12/24 17:27:54.601205, 0] ../..
Dec 24 17:27:54 server.saismael.net smbd[8966]:      smbd version 4.16.4 started.
Dec 24 17:27:54 server.saismael.net smbd[8966]:      Copyright Andrew Tridgell and the Samba Team
```


Настройка сервера Samba

```
[root@server.saismael.net ~]# less /usr/lib/firewalld/services/samba.xml
[3]+  Stopped                  less /usr/lib/firewalld/services/samba.xml
[root@server.saismael.net ~]#
[root@server.saismael.net ~]# firewall-cmd --add-service=samba
success
[root@server.saismael.net ~]# firewall-cmd --add-service=samba --permanent
success
[root@server.saismael.net ~]# firewall-cmd --reload
success
[root@server.saismael.net ~]#
[root@server.saismael.net ~]# chgrp sambagroup /srv/sambashare
chgrp: cannot access '/srv/sambashare': No such file or directory
[root@server.saismael.net ~]# chgrp sambagroup /srv/sambashare
[root@server.saismael.net ~]# chmod g=rwx /srv/sambashare
[root@server.saismael.net ~]# cd /srv
[root@server.saismael.net srv]# ls -Z
unconfined_u:object_r:nfs_t:s0 nfs unconfined_u:object_r:var_t:s0 sambashare
```

```
[root@server.saismael.net srv]# semanage fcontext -a -t samba_share_t "/srv/sambashare(
/.*)?"
[root@server.saismael.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.saismael.net srv]# ls -Z
unconfined_u:object_r:nfs_t:s0 nfs
unconfined_u:object_r:samba_share_t:s0 sambashare
[root@server.saismael.net srv]# id
uid=0(root) gid=0(root) groups=0(root) context=unconfined_u:unconfined_r:unconfined_t:s
0-s0:c0.c1023
[root@server.saismael.net srv]# cd /srv/sambashare
[root@server.saismael.net sambashare]# touch saismael@server.txt
[root@server.saismael.net sambashare]# smbpasswd -L -a saismael
New SMB password:
Retype new SMB password:
Added user saismael.
```

Монтирование файловой системы Samba на клиенте

```
[saismael@client.saismael.net ~]$ sudo -i
[sudo] password for saismael:
[root@client.saismael.net ~]# dnf -y install samba-client cifs-utils
Last metadata expiration check: 2:38:44 ago on Sat 24 Dec 2022 03:26:57 PM UTC.
Dependencies resolved.
```

Package	Architecture	Version	Repository	Size
Installing:				
cifs-utils	x86_64	6.14-1.el9	baseos	93 k
samba-client	x86_64	4.16.4-101.el9	appstream	656 k

Transaction Summary

Install 2 Packages

Total download size: 749 k

Installed size: 2.6 M

Downloading Packages:

(1/2): cifs-utils-6.14-1.el9.x86_64.rpm	63 kB/s 93 kB	00:01
(2/2): samba-client-4.16.4-101.el9.x86_64.rpm	398 kB/s 656 kB	00:01

```
[root@client.saismael.net ~]# less /usr/lib/firewalld/services/samba-client.xml
```

```
[1]+ Stopped less /usr/lib/firewalld/services/samba-client.xml
```

```
[root@client.saismael.net ~]#
```

```
[root@client.saismael.net ~]# firewalll-cmd --add-service=samba-client
```

```
bash: firewalll-cmd: command not found...
```

```
Similar command is: 'firewall-cmd'
```

```
[root@client.saismael.net ~]# firewall-cmd --add-service=samba-client
```

```
success
```

```
[root@client.saismael.net ~]# firewall-cmd --add-service=samba-client --permanent
```

```
t
```

```
success
```

```
[root@client.saismael.net ~]# firewall-cmd --reload
```

```
success
```

```
[root@client.saismael.net ~]# groupadd -g 1010 sambagroup
```

```
[root@client.saismael.net ~]# usermod -aG sambagroup saismael
```

```
[root@client.saismael.net ~]# smbclient -L //server
```

```
do_connect: Connection to server failed (Error NT_STATUS_NOT_FOUND)
```

```
[root@client.saismael.net ~]# smbclient -L //server
```

```
do connect: Connection to server failed (Error NT_STATUS_NOT_FOUND)
```

Внесение изменений в настройки внутреннего окружения виртуальной машины

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

```
1  #!/bin/bash
2
3  LOGIN=user
4  PASS=123456
5
6  echo "Provisioning script $0"
7
8  echo "Install needed packages"
9  dnf -y install samba samba-client cifs-utils
10
11 echo "Copy configuration files"
12 cp -R /vagrant/provision/server/smb/etc/* /etc
13 chown -R root:root /etc/samba/*
14 restorecon -vR /etc
15
16 echo "Configure firewall"
17 firewall-cmd --add-service samba --permanent
18 firewall-cmd --reload
19
20 echo "Users and groups"
21 groupadd -g 1010 sambagroup
22 usermod -aG sambagroup $LOGIN
23 echo -ne "$PASS\n$PASS\n" | smbpasswd -L -a -s $LOGIN
24
25 echo "Make share dir"
26 mkdir -p /srv/sambashare
27 chgrp sambagroup /srv/sambashare
28 chmod g=rwx /srv/sambashare
29
30 echo "Tuning SELinux"
31 semanage fcontext -a -t samba_share_t "/srv/sambashare(/.*)?"
32 restorecon -vR /srv/sambashare
33
34 setsebool samba_export_all_rw 1
35 setsebool -P samba_export_all_rw 1
36
37 echo "Start smb service"
38 systemctl enable smb
39 systemctl start smb
40
41 systemctl restart firewalld
```

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