

Лаборатория работа 14

Настройка файловых служб Samba

ПОДГОТОВИЛА: КИМ РЕАЧНА
ГРУППА: НПИБД-02-20

Цель работы:

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

Задание:

- Настройка сервера Samba
- Монтирование файловой системы Samba на клиенте
- Внесение изменений в настройки внутреннего окружения виртуальных машин

Настройка сервера Samba

```
[kreachna@server.kreachna.net ~]$ sudo -i
[sudo] password for kreachna:
[root@server.kreachna.net ~]# dnf -y install samba samba-client cifs-utils
Rocky Linux 9 - BaseOS                    5.0 kB/s | 3.6 kB    00:00
Rocky Linux 9 - AppStream                  7.2 kB/s | 4.1 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            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
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
samba-libs                              x86_64
tdb-tools                               x86_64

Transaction Summary
=====
Install 12 Packages

[root@server.kreachna.net ~]# smbclient -L //server
Password for [KREACHNA-NET\root]:
Anonymous login successful

Sharename      Type      Comment
-----
print$         Disk      Printer Drivers
sambashare     Disk      My Samba Share
IPC$           IPC       IPC Service (Samba 4.16.4)
SMB1 disabled -- no workgroup available
```

Монтирование файловой системы Samba на клиенте

```
[root@client.kreachna.net ~]# mount -o username=kreachna //server/smbashare /mnt/samba
Password for kreachna@//server/smbashare:
```

```
[root@client.kreachna.net ~]# umount /mnt/samba
[root@client.kreachna.net ~]#
```

```
fstab      [-M--] 0 L:[ 1+14 15/ 21] *(514 / 789b) 0010 0x00A
#
# /etc/fstab
# Created by anaconda on Sat Nov 12 13:10:26 2022
#
# 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=05826c71-65e5-44ca-a8d8-19b42c955f92 /          xfs      defaults      0 0
/swapfile none swap defaults 0 0
server.kreachna.net:/srv/nfs /mnt/nfs nfs _netdev 0 0
//server/smbashare /mnt/samba cifs user,rw,credentials=/etc/samba/smbusers,uid=kreachna,gid=sambagroup,_netdev 0 0
#VAGRANT-BEGIN
```


Внесение изменений в настройки внутреннего окружения виртуальной машины

```
Vagrantfile x nfs.sh x nfs.sh x smb.sh x smb.sh x
1  #!/bin/bash
2
3  LOGIN=kreachna
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/smbashare
27 chgrp sambagroup /srv/smbashare
28 chmod g=rwx /srv/smbashare
29
30 echo "Tuning SELinux"
31 semanage fcontext -a -t samba_share_t "/srv/smbashare(/"
32 restorecon -vR /srv/smbashare
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
```

```
Vagrantfile x nfs.sh x nfs.sh x smb.sh x smb.sh x
1  #!/bin/bash
2
3  LOGIN=kreachna
4
5  echo "Provisioning script $0"
6
7  mkdir -p /mnt/samba
8
9  echo "Install needed packages"
10 dnf -y install samba-client cifs-utils
11
12 echo "Copy configuration files"
13 cp -R /vagrant/provision/client/smb/etc/* /etc
14 chown -R root:root /etc/samba/*
15 restorecon -vR /etc
16
17 echo "Configure firewall"
18 firewall-cmd --add-service samba-client --permanent
19 firewall-cmd --reload
20
21 echo "Users and groups"
22 groupadd -g 1010 sambagroup
23 usermod -aG sambagroup $LOGIN
24
25 echo "Mounting dirs"
26 mkdir -p /srv/smbashare
27 echo "//server/smbashare /mnt/samba cifs user,rw,credentials=/etc/samba/smbusers,uid=kreachna,gid=sambagroup,_netdev 0 0" >> /etc/fstab
28
29 restorecon -vR /etc
30
31 umount /mnt/samba
32 mount /mnt/samba
```

Вывод

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

Спасибо за внимание!