

## Assignment 9: File Servers

Jesse Russell

Exercise a:

Step 1

a)

```
root@localhost:~  
File Edit View Search Terminal Help  
Verifying : libsmbclient-4.9.1-6.el7.x86_64 10/18  
Verifying : samba-common-4.8.3-4.el7.noarch 11/18  
Verifying : samba-libs-4.8.3-4.el7.x86_64 12/18  
Verifying : libtevent-0.9.36-1.el7.x86_64 13/18  
Verifying : samba-client-libs-4.8.3-4.el7.x86_64 14/18  
Verifying : libwbclient-4.8.3-4.el7.x86_64 15/18  
Verifying : samba-common-libs-4.8.3-4.el7.x86_64 16/18  
Verifying : samba-client-4.8.3-4.el7.x86_64 17/18  
Verifying : libsmbclient-4.8.3-4.el7.x86_64 18/18  
  
Installed:  
samba.x86_64 0:4.9.1-6.el7  
  
Dependency Installed:  
samba-common-tools.x86_64 0:4.9.1-6.el7  
  
Dependency Updated:  
libsmbclient.x86_64 0:4.9.1-6.el7 libtevent.x86_64 0:0.9.37-1.el7  
libwbclient.x86_64 0:4.9.1-6.el7 samba-client.x86_64 0:4.9.1-6.el7  
samba-client-libs.x86_64 0:4.9.1-6.el7 samba-common.noarch 0:4.9.1-6.el7  
samba-common-libs.x86_64 0:4.9.1-6.el7 samba-libs.x86_64 0:4.9.1-6.el7  
  
Complete!  
[root@localhost ~]#
```

Samba was properly installed.

```
[root@localhost ~]# mkdir /samba  
[root@localhost ~]#
```

I created a directory called /samba

b), c), d), e), and f)

```
[root@localhost ~]# useradd sisac001
[root@localhost ~]# groupadd students
[root@localhost ~]# usermod -aG students sisac001
[root@localhost ~]# chown sisac001:students /samba
[root@localhost ~]# chmod 3770 /samba
[root@localhost ~]# smbpasswd -a sisas001
New SMB password:
Retype new SMB password:
Failed to add entry for user sisas001.
[root@localhost ~]# smbpasswd -a sisas001
New SMB password:
Retype new SMB password:
Failed to add entry for user sisas001.
[root@localhost ~]# smbpasswd -a sisac001
New SMB password:
Retype new SMB password:
Added user sisac001.
[root@localhost ~]# █
```

I added a new user called sisac001, then I added that user to the students group. Afterwards, I changed the owner to the samba directory to this user. I then allowed the user and group owner to have full access to the directory. Lastly, I set the Samba password for sisac001.

g)

```
[students]
    path = /samba
    writable = yes
    valid users = +students
    write list = +students
█
```

I edited the samba configuration file to be configured with the students group.

h) and i)

```
[root@localhost ~]# systemctl start smb
[root@localhost ~]# systemctl start nmb
[root@localhost ~]# setenforce 0
```

I started both the Samba and the naming services. I also turned off SELinux security.

Step 3:

```
[root@localhost mnt]# cd /samba
[root@localhost samba]# ls -l
total 0
-rwxr--r--. 1 sisac001 students 0 Nov 12 13:27 sisac001-file
[root@localhost samba]# █
```

I accessed the /mnt directory through samba

Exercise b:

Step 1:

```
root@localhost:~  
File Edit View Search Terminal Help  
Updating:  
nfs-utils x86_64 1:1.3.0-0.65.el7 base  
Transaction Summary  
=====
```

Package	Architecture	Version	Source
nfs-utils	x86_64	1:1.3.0-0.65.el7	base

```
=====
```

Package	Architecture	Version	Source
nfs-utils	x86_64	1:1.3.0-0.65.el7	base

```
=====
```

Upgrade 1 Package

Total size: 412 k  
Is this ok [y/d/N]: y  
Downloading packages:  
Running transaction check  
Running transaction test  
Transaction test succeeded  
Running transaction  
Updating : 1:nfs-utils-1.3.0-0.65.el7.x86\_64  
Cleanup : 1:nfs-utils-1.3.0-0.61.el7.x86\_64  
Verifying : 1:nfs-utils-1.3.0-0.65.el7.x86\_64  
Verifying : 1:nfs-utils-1.3.0-0.61.el7.x86\_64

Updated:  
nfs-utils.x86\_64 1:1.3.0-0.65.el7

Complete!  
[root@localhost ~]#

The NFS package was installed.

Step 6

```
[root@localhost nfs]# showmount -e localhost  
Export list for localhost:  
/nfs *  
[root@localhost nfs]#
```

I verified that the mount is available using showmount -e localhost

Step 7:

```
[root@localhost nfs]# mount | grep nfs-mnt  
localhost:/nfs on /nfs-mnt type nfs4 (rw,relatime,vers=4.1,rsz=131072,  
wsz=131072,namlen=255,hard,proto=tcp6,timeo=600,retrans=2,sec=sys,clie  
ntaddr=::1,local_lock=none,addr=::1)  
[root@localhost nfs]#
```

I verified that the share is mounted using mount | grep nfs-mnt

## Step 8

```
[root@localhost ~]# touch /nfs-mnt/afile  
touch: cannot touch '/nfs-mnt/afile': Permission denied  
[root@localhost ~]# cd /nfs-mnt  
[root@localhost nfs-mnt]# touch afile
```

I could not create the file because I do not have permission