Assignment 9: File Servers

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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.

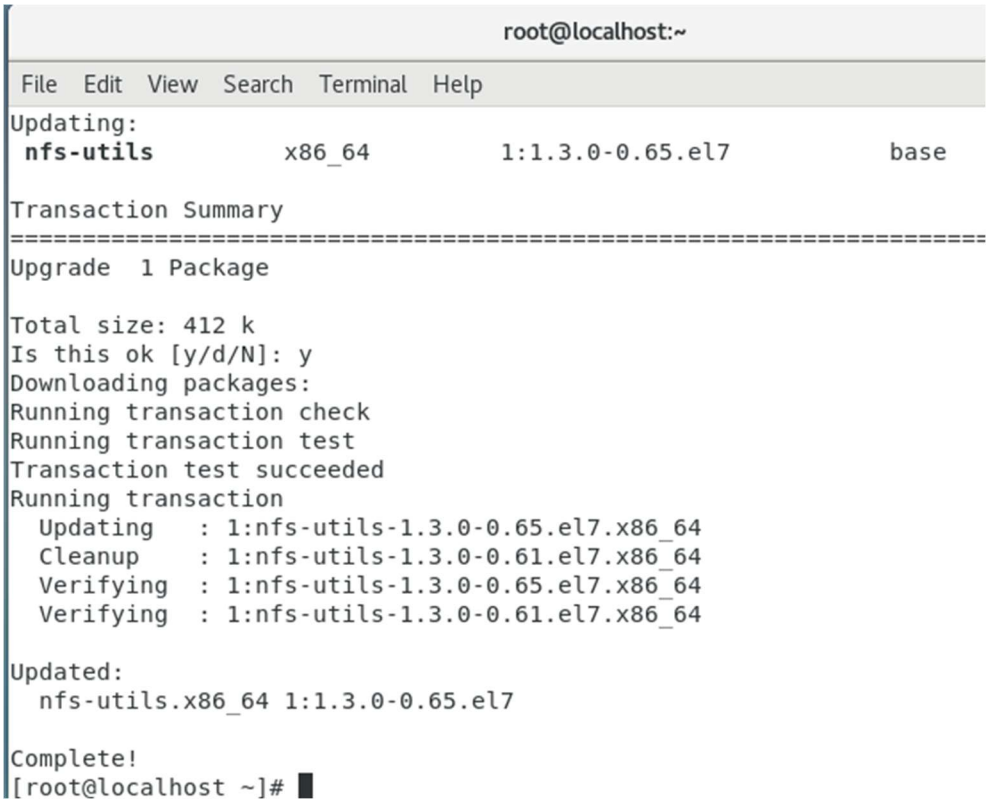
Step 3:

```
[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:

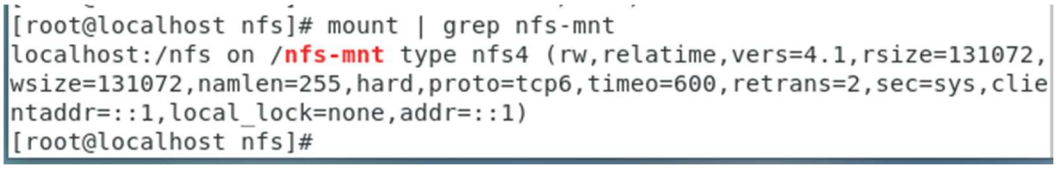


The NFS package was installed.

Step 6

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

Step 7:



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

Step 8

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

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