Configure NFS (Linux-Linux)

1. Create a test user called ***"nfstest".***

2. Create some test files in the home directory. /home/nfstest

3. Configure NFS to share the directory.

4. Test: Mount **/home/nfstest** from a separate Linux machine and access the test files.

Set up the file system to export

1. Login as "root" and Create a user "nfstest"

   # useradd nfstest

   # passwd nfstest <new password>

2. Login as "nfstest" and prepare the files system to share

   ◆ Create files in /home/nftest

      # cat > "file name"

   ◆ Change access permissions of the file system

      # chmod 777 <directory/file>

Configure NFS Server

1. Create an entry in the NFS configuration file /etc/exports

/home/nfstest 192.168.1.xx/255.255.255.0(rw,no_root_squash)
(a)   (b)   (c)   (d)

(a) directory to be shared

(b) Systems that are permitted to access to share

(c) rw = read and write access to share

(d) If client is root; then server access is also root

Start NFS Server

1. Restart the NFS service

   # systemctl stop nfs
   # systemctl start nfs

2. Make the file system available

   # /usr/sbin/exportfs −v
   -v = verbose

Access from a Linux Machine

1. At a separate Linux machine, mount the exported file system

`# mkdir /mnt/temp`

`# mount –t nfs 192.168.1.xx:/home/nfstest /mnt/temp`

      (a)   (b)   (c)   (d)

   (a) File system type

   (b) Server IP address

   (c) File system to be shared (source)

   (d) Directory to be mounted to (destination)

      Note: "temp" must already exist.

2. Clean up after testing: Unmount the file system

`# umount /mnt/temp`

Set Up SAMBA (public security)

1. Modify SAMBA configuration file etc/samba/smb.conf

```
[global]
    workgroup = CST323
    server string = Samba Server
    security = share

[NFSHARE]
    comment = Win32 Share
    path = /home/nfstest
    public = yes
    writable = yes
    printable = no
```

Set Up SAMBA (public security)

1. Restart SAMBA

   # systemctl stop smb
   # systemctl start smb

Set Up SAMBA (private security)

1. Modify SAMBA configuration file etc/samba/smb.conf

   [global]

   security = user

2. Add the "nfstest" to the smbpasswd file

   # smbpasswd –a nfstest **(add)**

   # smbpasswd nfstest **(change password)**

   Note: samba password must match the Linux user password