RedHat Certified System Administrator (RHEL 9)

SUMMARY

Create NFS Share

1. Create a directory to be shared
   - `mkdir /nfs-share`
2. Add the directory to the /etc/exports file
   - `/nfs-share client1(rw,sync,no_root_squash) client2(rw,sync,no_root_squash)`
     - client1: IP address or hostname of the first client
     - client2: IP address or hostname of the second client
     - rw: Read and write access
     - sync: Synchronous access
     - no_root_squash: Allow root access
3. Allow the services nfs, mountd, and rpc-bind in the firewall
   - `firewall-cmd --add-service=nfs --add-service=mountd --add-service=rpc-bind --permanent`
   - `firewall-cmd --reload`

Mount an NFS Share

1. Install the NFS client with the following command:
   - `yum install nfs-utils`
2. Show the available NFS shares on the server
   - `showmount -e server`
   - server: IP address or hostname of the NFS server
3. Create a directory to mount the NFS share
   - `mkdir /mnt/nfs-share`
4. Mount the NFS share
   - `mount server:/nfs-share /mnt/nfs-share`

   server: IP address or hostname of the NFS server

5. Make the mount permanent by adding the following line to the /etc/fstab file
   - `server:/nfs-share /mnt/nfs-share nfs sync 0 0`

Mount an NFS Share using autofs

1. Install the autofs service with the following command:
   - `yum install autofs`
2. Enable & Start the autofs service with the following command:
   - `systemctl enable --now autofs`
3. Configure the autofs service to mount the NFS share when it is accessed

   3.1. Add the following line to the /etc/auto.master file

   - `/path/to/folder/nfs-share /etc/auto.nfs-share`

   3.2. Create the /etc/auto.nfs-share file and add the following line

   - `files -rw server:/nfs-share`

4. Cd to /path/to/folder/nfs-share, listing there won't show anything but you can cd files.