RedHat Certified System Administrator (RHEL 9)

SUMMARY

Configure Roaming User Profiles

- In the Server:
1. Make sure nfs-utils is installed
   - `yum install nfs-utils`
2. In the NFS Server VM:
3. Configure the home directory of the users to be exported through nfs:
   - `echo '/home *(rw,sync)'`
4. Restart the nfs-server
   - `systemctl restart nfs-server`
5. Make sure the services mountd, nfs and rpc-bind are allowed through the firewall (Allow them if not)
   - `firewall-cmd --add-service=nfs --add-service=mountd --add-service=rpc-bind --permanent`
   - `firewall-cmd --reload`
6. Create a user on the NFS Server VM
   - `useradd userX -u 1100`
- In the NFS Client:
1. Make sure nfs-utils and autofs are installed
   - `yum install nfs-utils autofs`
2. Enable and start the autofs service
   - `systemctl enable --now autofs`
3. Configure the autofs service to mount the home directory of the users when it is accessed
   - `echo '/users /etc/auto.home' >> /etc/auto.master` # MAke sure the directory /users exists
   - `echo '* -rw,sync server:/home/&' >> /etc/auto.home`
4. Restart the autofs service
   - `systemctl restart autofs`

5. Create a user on the NFS Server VM with no home directory + base directory /users + UID 1100
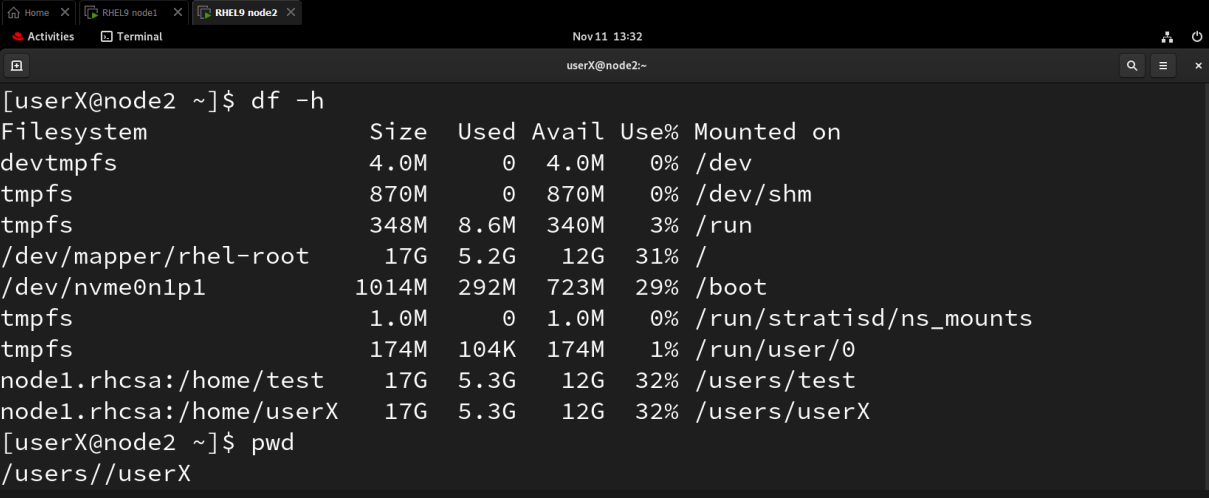   - `useradd userX -u 1100 -M -b /users`
6. Login to the NFS Client VM as user1
    - `su - userX`
7. Check the filesystem for any new mounts
    - `df -f`

You will find the home directory of userX mounted under /users/userX as shown in the image below.

```
[userX@node2 ~]$ df -h
Filesystem                 Size  Used  Avail Use% Mounted on
devtmpfs                   4.0M     0   4.0M   0% /dev
tmpfs                      870M     0   870M   0% /dev/shm
tmpfs                      348M  8.6M   340M   3% /run
/dev/mapper/rhel-root       17G  5.2G    12G  31% /
/dev/nvme0n1p1            1014M  292M   723M  29% /boot
tmpfs                      1.0M     0   1.0M   0% /run/stratisd/ns_mounts
tmpfs                      174M  104K   174M   1% /run/user/0
node1.rhcsa:/home/test      17G  5.3G    12G  32% /users/test
node1.rhcsa:/home/userX     17G  5.3G    12G  32% /users/userX
[userX@node2 ~]$ pwd
/users//userX
```