**Share**

You save the share paths in /etc/exports

1st method – none- Every file that will created in the folder will be under the owner "nfs nobody"

2nd method – sys – user work with local UID`s, more secure (beside root, root is map to "nfs nobody")

3rd – Kerberos 5i – one-time authentication

4th – Merkeros5p – authentication and permanent encryption (like AD)

if I want to work with Kerberos I need a middle server to authenticate (like DC server), the server should do a mount to the share server through mount.

yum install nfs-utils -y

systemctl enable nfs-utils.service

mkdir -m 777 /share

vim /etc/exports

/share 192.168.217.134/24(rw,sync,no\_root\_squash,no\_all\_squash)

exportfs -arvs

systemctl enable nfs-server && systemctl start nfs-server

firewall-cmd --add-service=nfs --permanent

firewall-cmd --add-service=rpc-bind – permanent

firewall-cmd --add-service=mountd -- permanent

firewall-cmd --reload

**Mount –** *mount –t nfs SERVER:/share1 /mnt/share1*

**Fstab –** means that I create a permanent mount so I need to check every time to check availability (Disadvantage)

**Automount –** 1st use the service that called autofs. used for a temporary mount:

# auto.master

#auto.master.d 🡪 #.autofs 🡪#/guests or /etc/auto.guests

Inside /etc/auto.guests there is a configuration that sais for example that if guest 1 (that under /guest/guest1) so he will be mounted to a few mount options and I need to say where the share is located:

*guest1 –MOUNT DESTINATION server1:/exports/guests/guest1*

***Samba***

I need to add to the command *.cifs (mount.cifs)*

Mount: *mount –t cifs //SERVER/share2*

Samba credentials:

*Mount –t cifs //myshare /mnt/data -o credentials = username= USER1, password=PASSWORD1, domain=MYDOMAIN,nodfs,noperm,sec=ntlm*

*Smbclient –L = Show shares are available*

*Server – yum install samba samba-common samba-client*

*Desktop – yum install samba-client cifs-utils*

*testparm - checking config*

*cifscreds - temp mount to samba share*

*add, update, clear, clearall*

*smb - transfer conversation - smbd.service*

*nmb - naming conversation - nmbd.service*

*nmbd ports = 137, 138*

*smbd ports = 139,* ***445***

*firewall-cmd --add-service=samba*

*useradd -s /sbin/nologin user*

*smbpasswd –a "user"*

*semanage fcontext -a -t samba\_share\_t "/public(/.\*)?"*

*restorecon -RFvv /public*

*smbpasswd -a test*

*/etc/samba/smb.conf*