Network File Share

- Host configuration :

1) Install

 # yum install nfs-utils -y

2) Create data(directory) :

 # mkdir /data

 # touch /data/secret #copy files or create files you want to share on NFS

 # chmod -R 755 /data

 # chown nfsnobody:nfsnobody /data -R

 # vim /etc/exports

/data 192.168.1.254(rw,sync,no_root_squash) #write this entry in the blank file (specific IP)

OR

/data 192.168.1.0/255.255.255.0(rw,sync,no_root_squash) #(for entire network)

OR

/data *(rw,sync,no_root_squash) #(for any network)

:wq

NOTE:[no_root_squash: This option basically gives authority to the root user on the client to access files on the NFS server as root.]

systemctl restart nfs-server

systemctl enable nfs-server

- Client Configuration :

 # yum install nfs-utils -y [CentOS]

 # apt install nfs-common -y [Debian]

 # mount -t nfs 192.168.1.254:/data /mnt #mention the server IP address /mnt is a mounting point

-t : type of filesystem

192.168.1.254 NFS server IP

 # df -h #report file system disk usage space

 # umount /mnt

- Mounting permanently

 # vim /etc/fstab

192.168.1.254:/data /mnt nfs defaults 0 0 #write this entry in the bottom of the file

:wq

 # mount -a

 # df -h