NFS

NFS   NFS   NFS

```
+---------------------+ | +---------------------+
|[NFS    ]|10.0.0.30 | 10.0.0.51|[NFS    ]|
| dlp.srv.world +----------+----------+ node01.srv.world |
||||
+----------+ +----------+
```
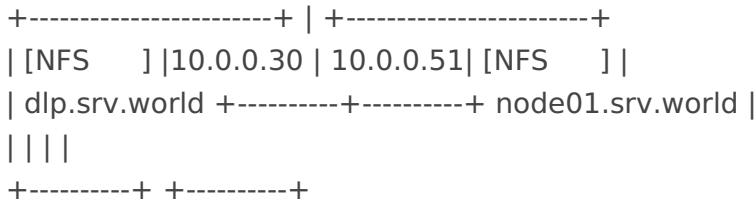
[1]   NFS

```
[root@node01 ~]# dnf -y install nfs-utils
[root@node01 ~]# vi /etc/idmapd.conf
# line 5 : uncomment and change to your domain name
Domain = srv.world
[root@node01 ~]# mount -t nfs dlp.srv.world:/home/nfsshare /mnt
[root@node01 ~]# df -hT
Filesystem                 Type      Size  Used Avail Use% Mounted on
devtmpfs                   devtmpfs  1.9G     0  1.9G   0% /dev
tmpfs                      tmpfs     1.9G     0  1.9G   0% /dev/shm
tmpfs                      tmpfs     1.9G  8.6M  1.9G   1% /run
tmpfs                      tmpfs     1.9G     0  1.9G   0% /sys/fs/cgroup
/dev/mapper/cs-root        xfs        26G  2.3G   24G   9% /
/dev/vda1                  xfs      1014M  259M  756M  26% /boot
tmpfs                      tmpfs     374M     0  374M   0% /run/user/0
dlp.srv.world:/home/nfsshare nfs4    26G  2.3G   24G   9% /mnt
# NFS share is mounted


# if mount with NFSv3, add [-o vers=3] option
[root@node01 ~]# mount -t nfs -o vers=3 dlp.srv.world:/home/nfsshare /mnt
[root@node01 ~]# df -hT /mnt
Filesystem                 Type  Size  Used Avail Use% Mounted on
dlp.srv.world:/home/nfsshare nfs   26G  2.3G   24G   9% /mnt
```

[2]   [/etc/fstab]

```
[root@node01 ~]# vi /etc/fstab
```

```
/dev/mapper/cs-root      /                        xfs      defaults        0 0
UUID=72e65d16-7d1a-40bc-9bc1-e45a8ba6d084 /boot xfs      defaults        0 0
/dev/mapper/cs-swap      none                     swap     defaults        0 0
# add to the end : set NFS share
dlp.srv.world:/home/nfsshare /mnt                 nfs      defaults        0 0
```

[3]   NFS   AutoFS

```
[root@node01 ~]# dnf -y install autofs
[root@node01 ~]# vi /etc/auto.master
# add to the end
/-     /etc/auto.mount


[root@node01 ~]# vi /etc/auto.mount
# create new : [mount point] [option] [location]
/mnt   -fstype=nfs,rw  dlp.srv.world:/home/nfsshare


[root@node01 ~]# systemctl enable --now autofs
# move to the mount point to verify mounting
[root@node01 ~]# cd /mnt
[root@node01 mnt]# ll
total 8
-rw-r--r--. 1 root root 10 Mar  3 19:14 testfile.txt
-rw-r--r--. 1 root root  5 Mar  3 19:17 test.txt


[root@node01 mnt]# grep /mnt /proc/mounts
/etc/auto.mount /mnt autofs
rw,relatime,fd=17,pgrp=2468,timeout=300,minproto=5,maxproto=5,direct,pipe_ino=33352 0 0
dlp.srv.world:/home/nfsshare /mnt nfs4
rw,relatime,vers=4.2,rsize=1048576,wsize=1048576,namlen=255,hard,proto=tcp,timeo=600,retrans=2
,sec=sys,clientaddr=10.0.0.51,local_lock=none,addr=10.0.0.30 0 0
```