

NFS Server and Client on Centos 7

Here is a quick and dirty working example of an NFS Server setup on Centos 7 that allows anonymous connectivity from any host to an exported filesystem and a Client mount from Fedora. It can be used to assist in troubleshooting problematic NFS mounts.

On Centos Server, Install NFS

Centos server should be able to ping Fedora machine.

```
yum install nfs-utils
```

```
mkdir /var/nfsshare
```

```
chmod -R 755 //var/nfsshare
```

```
chown nfsnobody:nfsnobody /var/nfsshare
```

```
systemctl enable rpcbind
```

```
systemctl enable nfs-server
```

```
systemctl enable nfs-lock
```

```
systemctl enable nfs-idmap
```

```
systemctl start rpcbind
```

```
systemctl start nfs-server
```

```
systemctl start nfs-lock
```

```
systemctl start nfs-idmap
```

```
vi /etc/exports
```

```
/var/nfsshare *(rw,sync,no_root_squash,no_all_squash)
```

```
systemctl restart nfs-server
```

```
firewall-cmd --permanent --zone=public --add-service=nfs
```

```
firewall-cmd --permanent --zone=public --add-service=mountd
```

```
firewall-cmd --permanent --zone=public --add-service=rpc-bind
```

```
firewall-cmd --reload
```

On Fedora Client, Mount NFS Export

fedora machine should be able to ping centos machine. edit /etc/hosts if you want to use hostnames (and don't have DNS).

```
yum install nfs-utils
```

```
mkdir -p /mnt/nfs/var/nfsshare
```

```
vi /etc/fstab
```

```
centos1:/var/nfsshare /mnt/nfs/var/nfsshare nfs defaults 0 0
```

```
mount -a
```

```
or mount -t nfs centos1:/var/nfsshare /mnt/nfs/var/nfsshare/
```

Note that all the above steps are necessary to work. Once this works, modify it one thing at a time and keep retesting the mount until you find what breaks it.