

NFS

Network File System



What is NFS

Network File System is a distributed file system protocol originally developed by Sun Microsystems in 1984, it allowing a user on a client computer to access files over a computer network.

It use port number 2049



Steps For Configure nfs

Configure following steps on Server

Step 1: Install Package

```
#yum install nfs*
```

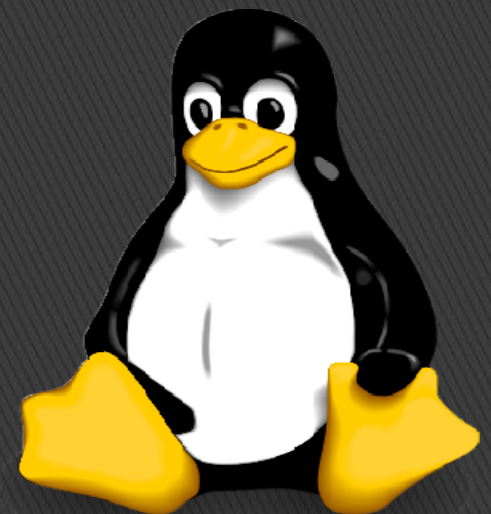
Step 2: Start nfs service

```
#systemctl start nfs-server
```

Step 3: Create directory to share data

```
#mkdir /nfsshare
```

```
#chmod 777 /nfsshare
```



Step 4: Edit configuration file

```
#vim          /etc/exports
/nfsshare     192.168.1.2(rw)
or
/nfsshare     192.168.1.0/24(rw)
or
/nfsshare     *.example.com(rw)

:wq
```

Step 5: Open Nfs Service In Firewall

```
#firewall-cmd --permanent --add-service=nfs
#firewall-cmd --reload
```

Step 6: Restart and enable nfs service

```
#systemctl restart nfs-server
#systemctl enable nfs-server

# exportfs -avr
```



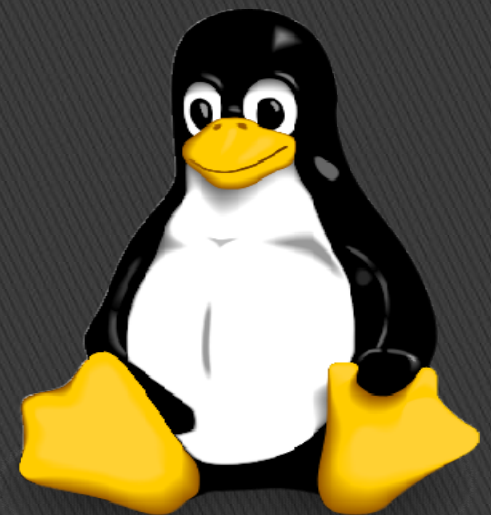
Client side step

Step1 : Install Package

```
#yum install nfs-utils
```

Step 2: Create Directory for mount

```
#mkdir /mydata
```



For temporary/permanent mount

Step 3: For mount temporary :

```
# mount -t nfs 172.25.0.11:/nfsshare /mydata
```

Step 4: For mount permanent :

```
# vim /etc/fstab
```

```
172.25.0.11:/nfsshare /mydata nfs defaults 0 0
```

```
:wq
```

```
#mount -a
```

```
#mount
```



Test the Working of NFS Setup

Go to server and create file

```
#cat > /nfsshare/nfstest.txt
```



At the nfsclient end

```
#cd /sharedata
```



