

NAS:- File Based Storage
Sharing Service NFS Network File System - SMB Simple Message Block

Linux system and Linux System NFS Service
Linux system and Windows System SMB Service

NFS Server NFS Client
Sharing Mount shared Directory → *mounting runtime only -*
File Server mount command /etc/fstab → *mounting permanent -*
Service nfs-server.service
Firewall Allow NFS Traffic
Configuration File /etc/exports

1- Configure NFS Server → *on server*

```
# mkdir /sales  
# mkdir /hr  
# mkdir /it  
# vim /etc/exports  
/sales 10.0.0.2(rw)  
/hr 10.0.0.0/8(rw)  
/it 10.0.0.3(rw)
```



ro read only rw writable

```
# firewall-cmd --add-service=nfs --permanent  
# firewall-cmd --add-service=mountd --permanent → allow service to do mount  
# firewall-cmd --add-service=rpc-bind --permanent → allow secure traffic  
# firewall-cmd --reload  
# firewall-cmd --list-services
```

```
# systemctl enable nfs-server.service  
# systemctl start nfs-server.service  
# systemctl status nfs-server.service  
# showmount -e 10.0.0.1 → show all available shared files -  
exclude
```

2- Configure NFS Client

```
# mount -t nfs 10.0.0.1:/hr /hrm
```

run time mount

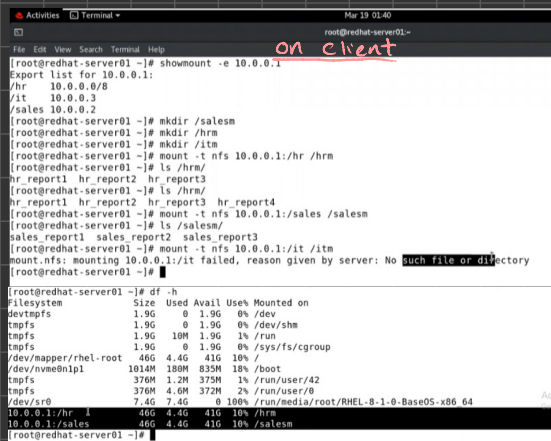
```
# vim /etc/fstab
```

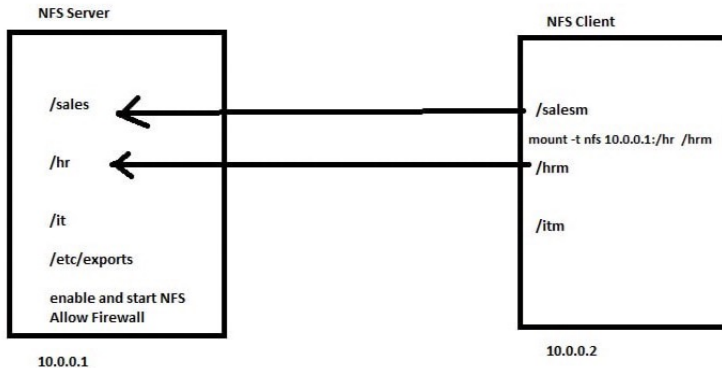
permanent mount

```
10.0.0.1:/hr      /hrm      nfs      defaults  
10.0.0.1:/sales /salesm nfs      defaults
```

0 0
0 0

```
# mount -a
```





File Edit View Search Terminal Help

```

#
# /etc/fstab
# Created by anaconda on Fri Mar 18 10:41:19 2022
#
# Accessible filesystems, by reference, are maintained under '/dev/disk/'.
# See man pages fstab(5), findfs(8), mount(8) and/or blkid(8) for more info.
#
# After editing this file, run 'systemctl daemon-reload' to update systemd
# units generated from this file.
#
/dev/mapper/rhel-root / xfs defaults 0 0
UUID=b762a03f-371e-4e78-a889-6e884ba20e16 /boot xfs defaults 0 0
/dev/mapper/rhel-swap swap swap defaults 0 0
10.0.0.1:/hr /hrm nfs defaults 0 0
10.0.0.1:/sales /salesm nfs defaults 0 0
  
```

perminant mounting

SAMBA - Service

Configure samba Server:

```

# yum install samba*
# firewall-cmd --add-service=samba --permanent
# firewall-cmd --reload
# mkdir /operations
# touch /operations/op_report1.txt
# touch /operations/op_report2.txt
# touch /operations/op_report3.txt
  
```

install samba package
allow firewall traffic

```

# vim /etc/samba/smb.conf
[operations]
  
```

add share informations to share folder

```

comment = for operation team only
path = /operations
browseable = yes
read only = no
valid users = hany, root, ali, @Group
  
```

```

# smbpasswd -a hany
  
```

set smb password for user hany
→ hany will use it when connect to shared files

```

# testparm
# systemctl enable smb.service
# systemctl start smb.service
  
```

check smb.conf file syntax
enable and start smb service

```

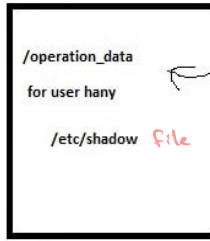
# chmod -R o+w /operations
# setenforce 0
  
```

allow write permissions
set selinux to permissive mode

from windows client \\10.0.0.1

Provide Windows Share
smb service
/etc/samba/smb.conf
firewall allow traffic
SMB Password

samba server
Linux Server



10.0.0.1

User Name hany
Password

Client Windows



10.0.0.50

\\10.0.0.1

SELinux *block*
Permissions rw *allow*
Firewall *allow*

*prevent any unnormal
behavior*