📂 File Server Project-4

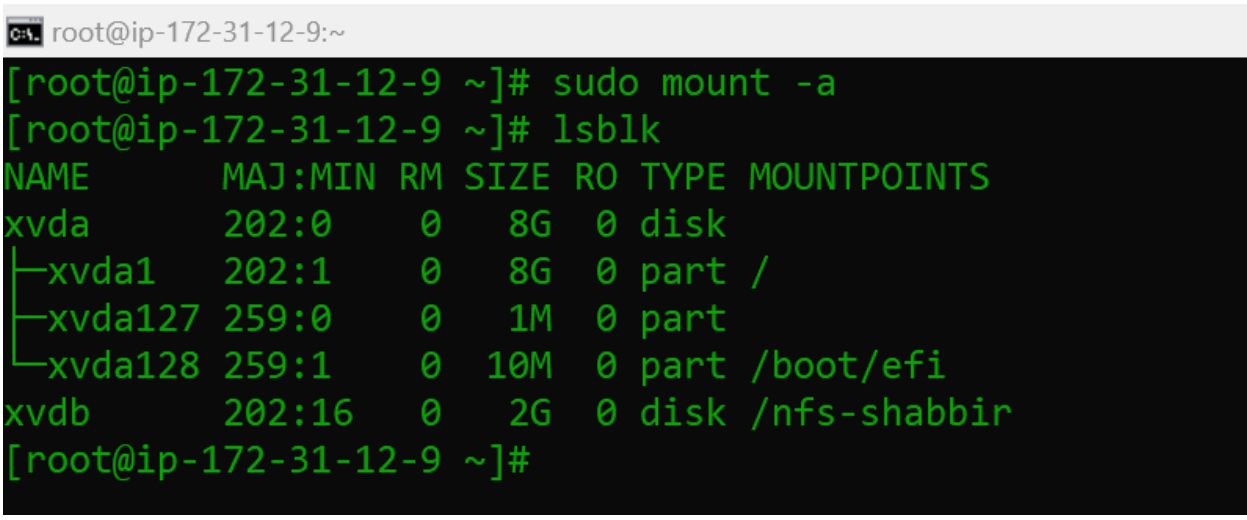
🗃️ Project	🧠 Description
NFS Server Configuration	📡 Set up an NFS server to share directories between Linux systems. Configure proper access control and persistent mounts.

🟦 PART-1: Launch EC2 Instances

Need:

1 EC2 → NFS Server

- AMI: Amazon Linux 2023 / AL2
- Security Group:
    - Allow NFS **TCP/UDP 2049**
    - Add 2G Volume for NFS-Share



1 or more EC2 → NFS Clients

- Same VPC (recommended)

🟦 PART-2: Install NFS Server (on Amazon Linux)

Step 1: Update system

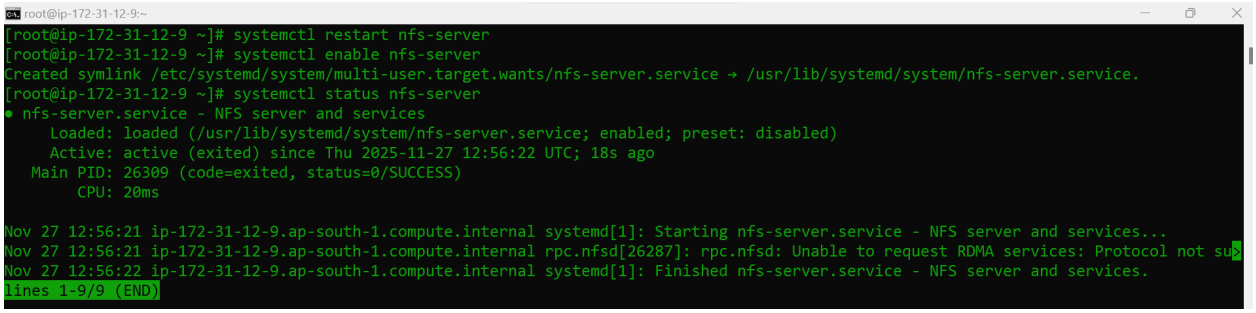
```
yum update -y
```

Step 2: Install NFS utilities

```
yum install nfs-utils -y
```

Step 3: Enable & start NFS service

```
systemctl restart  nfs-server
systemctl enable  nfs-server
systemctl status nfs-server
```



🟦 PART-3: Configure NFS Exports

Edit `/etc/exports`:

```
vim /etc/exports
```

Add:

```
nfs-shabbir    *(rw,sync,no_root_squash,no_subtree_check)
```

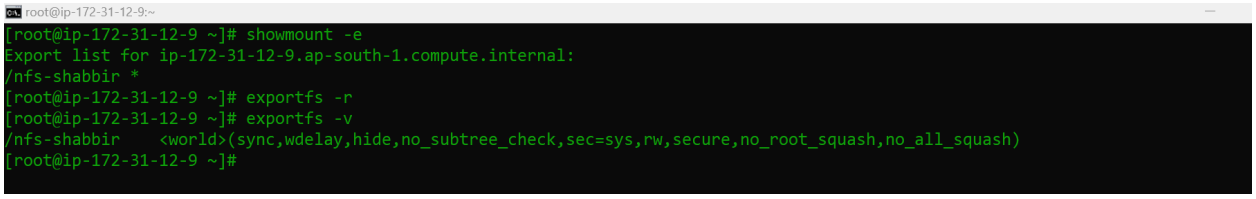
:wq
systemctl status nfs-server

Meaning:

- **rw** = read/write
- **no_root_squash** = allow root access
- **sync** = write sync
- **no_subtree_check** = improves performance

Apply changes:

```
exportfs -r
exportfs -v
```



🟦 PART-4 : Configure NFS Client

Install NFS utilities

On **client EC2**:

```
 Yum install nfs-utils -y
```

🟦 PART-5: Make Mount Persistent (fstab)

Edit `/etc/fstab` on **client**:

```
vim /etc/fstab
```

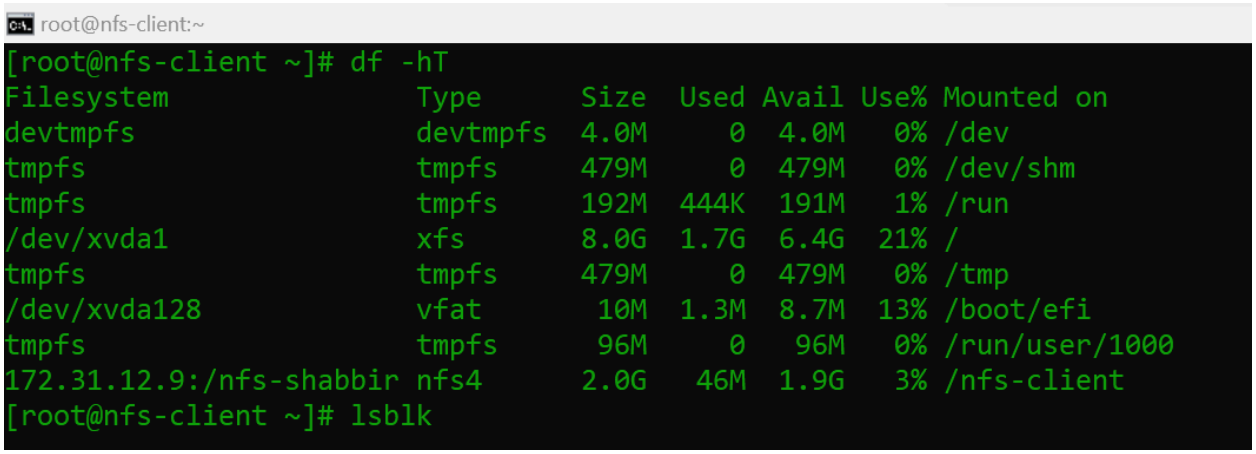
Add:

```
172.3.12.9:/nfs-shabbir  /nfs_clinet   nfs   defaults,_netdev   0 0
```

Reload fstab (test safely):

```
mount -a
```

On Client:



🟢 PROJECT COMPLETED

✔ NFS Server on Amazon Linux
✔ Exported shared directory
✔ Access control configured
✔ Client mount
✔ Persistent mounts (fstab)