

# Connect a Node to NFS Server

1. **Install NFS Client Utilities (if not already installed):** Ensure that NFS client utilities are installed on the client node. Install them if needed:

```
sudo apt update
sudo apt install nfs-common
```

2. **Mount NFS Share:** Create a directory on the client node where you want to mount the NFS share (e.g., `/mnt/nfs_client`):

```
sudo mkdir -p /mnt/nfs_client
```

3. **Mount the NFS Share:** Mount the NFS share from the server to the client directory:

```
sudo mount -t nfs server_ip:/mnt/nfs_share /mnt/nfs_client
```

Replace `server_ip` with the IP address of your NFS server.

4. **Verify Mount:** Check that the NFS share is mounted correctly:

```
mount | grep nfs
```

5. **Automount NFS Share (Optional):** If you want the NFS share to be mounted automatically on boot, you can add an entry to `/etc/fstab` on the client node:

```
server_ip:/mnt/nfs_share /mnt/nfs_client nfs defaults 0 0
```

Save the file and run:

```
sudo mount -a
```

6. **Reload daemon**

```
systemctl daemon-reload
```

## Testing the NFS Mount

- Create a file on the NFS share from the client node to ensure read and write permissions are correctly set up:

```
echo "Test file" | sudo tee /mnt/nfs_client/test.txt
```

- Check if the file appears on the NFS server at `/mnt/nfs_share`.

By following these steps, you should be able to connect another node (client) to your NFS server and access shared directories. Adjust the IP addresses, paths, and configuration options (`rw`, `sync`, etc.) according to your specific setup and security requirements.

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