# NFS Server Setup for Network File Access

Setting up a Network File System (NFS) server on Fedora allows shared directory access across systems in a network.

## 1. Install NFS Server

Install the NFS utilities package:

* sudo dnf install -y nfs-utils

## 2. Create a Directory to Share

Create a shared directory:

* sudo mkdir -p /shared

## 3. Configure NFS Exports

Edit the NFS exports file to specify directories to share:

* sudo nano /etc/exports

Add this line to share the directory:

* /shared \*(rw,sync,no\_root\_squash,no\_all\_squash)

## 4. Start and Enable NFS Services

Enable and start the NFS server:

* sudo systemctl enable --now nfs-server

## 5. Open Firewall Ports

Allow NFS through the firewall:

* sudo firewall-cmd --permanent --add-service=nfs
* sudo firewall-cmd --permanent --add-service=mountd
* sudo firewall-cmd --permanent --add-service=rpc-bind
* sudo firewall-cmd --reload

## 6. Export the NFS Share

Export all configured directories:

* sudo exportfs -arv

## 7. Restart the NFS Service

Restart NFS to apply changes:

* sudo systemctl restart nfs-server

## 8. Set Appropriate Permissions

Ensure the shared directory has correct permissions:

* sudo chmod -R 755 /shared

## 9. Accessing the NFS Share

On a client system, mount the NFS share:

* sudo mount -t nfs server\_name:/shared /mnt/mount\_point

## 10. Automounting NFS Shares (Optional)

To mount the share automatically on boot, add this line to /etc/fstab:

* server\_name:/shared /mnt/mount\_point nfs defaults 0 0