# Network File System

# On the Host

sudo apt update

sudo apt install nfs-kernel-server

## Creating the Share Directories on the Host

sudo mkdir /var/nfs/general -p

ls -la /var/nfs/general

## Output

drwxr-xr-x 2 root root 4096 May 14 18:36 .

sudo chown nobody:nogroup /var/nfs/general

sudo chmod 777 /var/nfs/general

## Configuring the NFS Exports on the Host Server

sudo nano /etc/exports

directory\_to\_share client(share\_option1,...,share\_optionN)

/var/nfs/general client\_ip(rw,sync,no\_subtree\_check)

/home client\_ip(rw,sync,no\_root\_squash,no\_subtree\_check)

sudo systemctl restart nfs-kernel-server

## Adjusting the Firewall on the Host

#sudo ufw allow from client\_ip to any port nfs  
sudo ufw allow from 192.168.2.1/24 to any port nfs

# On the Client

sudo apt update

sudo apt install nfs-common

## Creating Mount Points and Mounting Directories on the Client

sudo mkdir -p /nfs/general

sudo mkdir -p /nfs/home

sudo mount host\_ip:/var/nfs/general /nfs/general

sudo mount host\_ip:/home /nfs/home

df -h

## Mounting an NFS File System automatically

sudo nano /etc/fstab

192.168.2.182:/var/nfs/general /var/nfs/general nfs defaults 0 0

sudo umount [mount\_point]

sudo umount /var/nfs/general