

create an NFS share on Ubuntu:

1. Install the necessary packages:

```
sudo apt-get update
```

```
sudo apt-get install nfs-kernel-server
```

2. Create a directory to share:

```
sudo mkdir /nfs_share
```

3. Edit the exports file to configure the NFS share. Open the file **/etc/exports** using your preferred text editor. Add a new line at the end of the file with the following syntax:

```
/nfs_share *(rw,sync,no_subtree_check)
```

4. Save and close the file.
5. Restart the NFS server to apply the changes:  

```
sudo systemctl restart nfs-kernel-server
```
6. 

```
sudo mount -t nfs <private ip of ubuntuvm>:/nfs_share /mnt/nfs_share
```
7. mount the nfs share  

```
sudo mount -t nfs nfs_server:/nfs_share /nfs_share
```
8. Now you can use the **docker run** command to create a container with a volume that maps to the NFS share. Replace **nfs\_server** with the IP address or hostname of your NFS server, **nfs\_share** with the name of your NFS share, and **container\_name** with the name you want to give to your container:

```
docker run -d --name container_name -v /nfs_share:/data -it ubuntu /bin/bash
```