1. *NFS or Network File System is a distributed file system protocol*
2. *Through NFS, you can allow a system to share directories and files with others over a network*
3. *NFS is operated in a client-server environment where the server is responsible for managing the authentication, authorization, and management of clients, as well as all the data shared within a specific file system*

### *First Install NFS Kernel Server*

*apt-get update*

*apt install nfs-kernel-server*

### *Now create the export directory*

*mkdir -p /mnt/sharedfolder*

### *As we want all clients to access the directory, we will remove restrictive permissions of the export folder through the following commands*

*chown nobody:nogroup /mnt/sharedfolder*

*chmod 777 /mnt/sharedfolder*

### *Now Assign server access to client(s) through NFS export file*

### *For A single client:*

*/mnt/sharedfolder 192.168.72.80(rw,sync,no\_subtree\_check)*

### *For two client:*

*/mnt/sharedfolder client1IP(rw,sync,no\_subtree\_check)*

*/mnt/sharedfolder client2IP(rw,sync,no\_subtree\_check)*

### *For Multiple clients:*

*/mnt/sharedfolder subnetIP/24(rw,sync,no\_subtree\_check)*

### *Now Export the shared directory*

*exportfs -a*

*systemctl restart nfs-kernel-server*

### *Open firewall for the client*

*ufw allow from 192.168.72.81 to any port nfs*

*ufw status*

## *Now Configure the Client Machine*

*apt-get update*

*apt-get install nfs-common*

### *Create a mount point for the NFS host’s shared folder*

*mkdir -p /mnt/sharedfolder\_client*

### *Mount the shared directory on the client*

*mount 192.168.72.80:/mnt/sharedfolder /mnt/sharedfolder\_client*

### *Now you can test by creating a folder on server inside mount point will accessible for a client machine.*