



# ***NFS (Network File System)***

# ***Network File System***

***NFS** was developed by **Sun Microsystems** in **1980**.*

*NFS is basically developed for sharing of files and directory between Linux/Unix systems*

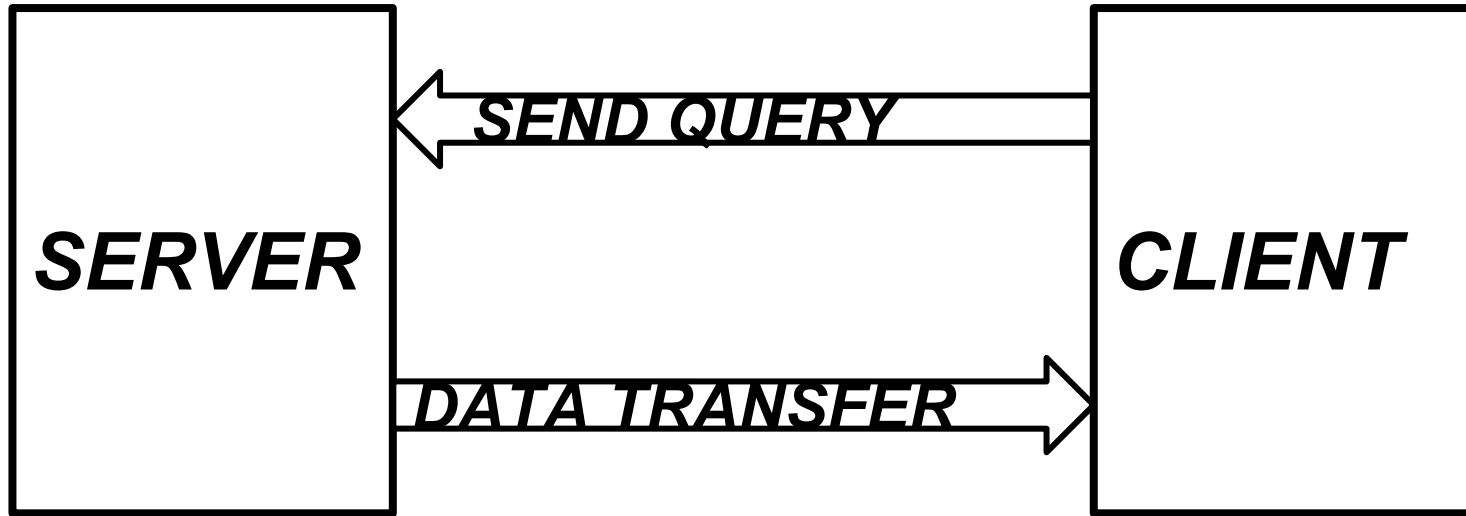
*The NFS protocol is one of several distributed file system standards for **network-attached storage** (NAS).*

# *Network File System*

*NFS allows the user to mount all or a portion of a file system on a server.*

*The portion of the file system that is mounted can be accessed by clients with whatever privileges are assigned to each file (read-only or read-write).*

# *Network File System*



# ***NFS Requirement***

*Package :- nfs\* (Server) and nfs-utils\* (Client)*

*Service :- nfs, mountd, rpc-bind*

*Daemon :- nfsd*

*Port :- 2049*

*Main Conf. File :- /etc/exports*

# Configure NFS (Server)

```
# yum install nfs* -y
```

```
# mkdir /cp
```

```
# cd /cp
```

```
# cat abc
```

```
# Ctrl+D
```

# Configure NFS (Server)

```
# firewall-cmd --permanent --add-service=nfs
```

```
# firewall-cmd --permanent --add-service=mountd
```

```
# firewall-cmd --permanent --add-service=rpc-bind
```

```
# firewall-cmd --reload
```

# Configure NFS (Server)

```
# vim /etc/exports  
/cp    desktopX.example.com(ro)
```

**or**

```
/cp    *.example.com(ro)
```

```
:wq!
```



# Configure NFS (Server)

*# exports -rv*

*# systemctl enable nfs-server.service*

*# systemctl start nfs-server.service*

*# systemctl restart nfs-server.service*

# Configure NFS (Client)

```
# yum install nfs-utils* -y
```

```
# showmount -e 172.25.X.11
```

```
# mkdir /mnt/linux
```

```
# vim /etc/fstab
```

```
172.25.X.11:/cp    /mnt/linux    nfs    defaults    0    0
```

# *Configure NFS (Client)*

*:wq!*

*# mount -a*

*# df -Th*

# Configure NFS (Client)

```
# cd /mnt/linux
```

```
# ls
```

```
# touch a ( read-only permission)
```

*Go server side and open /etc/exports and change*

```
/cp  desktopX.example.com(rw,no_root_squash)
```



# ***Secure NFS***