NFS [NETWORK FILE SYSTEM]

* To share files between same flavor machines such as Linux.
* You can mount the shared dir in your local machine and use it as your local drive.
* Pkg = **nfs-utils**.
* Port = **2049**.
* Daemon = **rpc.nfsd**.
* Config file = **/etc/exports**.
* Other files = **/var/lib/nfs/etab**, **/var/lib/nfs/rmtab**.
* **nfsstat –s** = To see nfs version in server.
* **nfsstat –c** = To see nfs version in client.
* **Showmount –a =** To see all clients connected to nfs server.
* If you want to share a dir to any host in you network..
* Go to **/etc/exports**

**directory-path clientip (rw, sync**) – dir info to share.

**exportfs –avr** = To export the files.

* Restart nfs service to apply all the new changes to the network.
* Now go to client, type “**showmount -e serverip**”. It will show files shared by that particular server.
* Before mounting, you have to check the **nfs mountd port** and allow the port in your linux server.
* To check the mountd port = **rpcinfo –p serverip**.
* Allow this port in your linux server and if you are using aws server add this port in server security group.
* To mount the shared dir in your system,

**mount -t nfs server-ip:dirpath dir-path(client)**.

* To mount permanently go to fstab file,

**serverip:dir dir(client) nfs defaults 0 0.**

* Give write and read permissions to the dir that you want to share. otherwise whatever changes we made to that dir in client won’t update in server.
* If you mounted nfs shared dir in **/root** dir. It won’t show for normal users. Because of lack of permissions. If you gave permissions to normal users for /root dir. They can see the mounted dir with mount point.
* If you mounted on some other dir, where normal users have permissions, it will show the mounted dir.