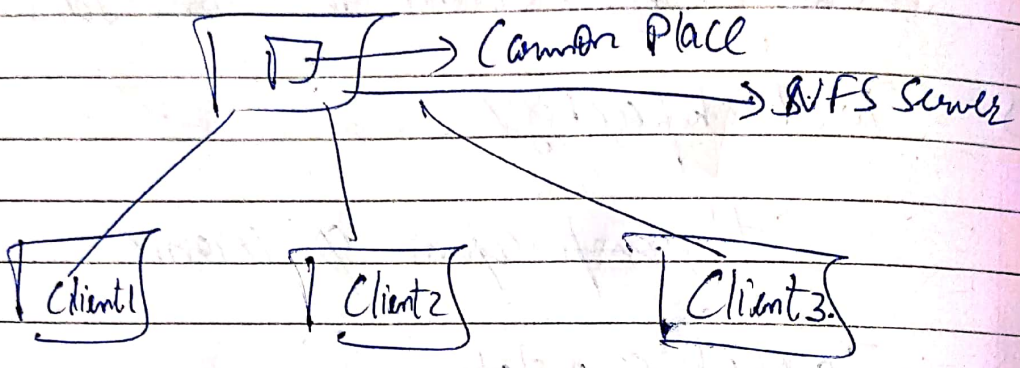
Day 16: 07/02/2025

CH

NFS Server.



Requirement:

1) Package of NFS.
2) Port: 2049.
3) Selinux
4) aws virtual machine on aws.

⇒ 1 Client:

⇒ Key1 = Key1.name.

⇒ We ~~have~~ launched 2 virtual machine on AWS with t2.micro.

⇒ Now go to CMD

Steps on AWS

1. EC2
2. Launch instance
3. Select Red Hat
4. Instance type: t2
5. Create new key pair
6. Select that
7. Launch.

Client Machine IP

ssh -i Downloads/Key1.pem ec2-user@IP

- ssh -i : identify file
- Downloads/Key1.pem : location, Key name
- ec2-user : user
- IP : IP

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Now we are login with aws server with t2.micro (with o Bill) and we are logged in cmd as (ec2-user) in system! Now we can access the virtual machine easily.

=> Now moving to root:

sudo -i
passwd — password for Client ~~pass~~ RartiMain
hostnamectl set-hostname ~~Client~~ server
bash

=> Installation

yum install nfs* -y
yum install vim

=> Start/ enable service

systemctl status nfs-server
(Inactive)
systemctl ~~enable~~ start nfs-server
systemctl enable nfs-server
vim /etc/ssh/sshd_config

permitRootlogin yes
pass A : yes

systemctl restart sshd.

⇒ Now Move to AWS console for Security

1) Select Server
2) Security (at Down)
3) Security Group
4) Inbound Rule
5) Add Rule
6) Add NFS
7) IPV4
8) Save

⇒ Now make Directory

#mkdir /share

ls -ldZ /share
(output we saw default)

semanage fcontext -a -t nfs_t /sh (to set the labels from dfult to nfs)

restorecon -R /share
(to restore the Connection)

ls -ldZ /share.
(Now this directory is part of NFS)

vim /etc/exports

→ & /share *(rw, sync, no_root_squash)

all

systemctl restart nfs-server

exports -v

∴ Now Server is complete

2) Now Setting up the Client:

ssh -i Download/key1.pem ec2-user@IP of Client

sudo -i

passwd (Kartikjain)

hostnamectl set-hostname client

bash

(We install mount bcz of Configg.)

yum install mount* -y

mkdir /receive

yum install vim -y

vim /etc/fstab

[IP of Server: /share /receive nfs defaults 0 0

mount -a

⇒ Now to check: from Server

```
# touch /share/file1
# ls/share
```

⇒ Now from client:

```
# ls /receive/
# touch /receive/file2
```