How to connect two Linux instances

Step1:

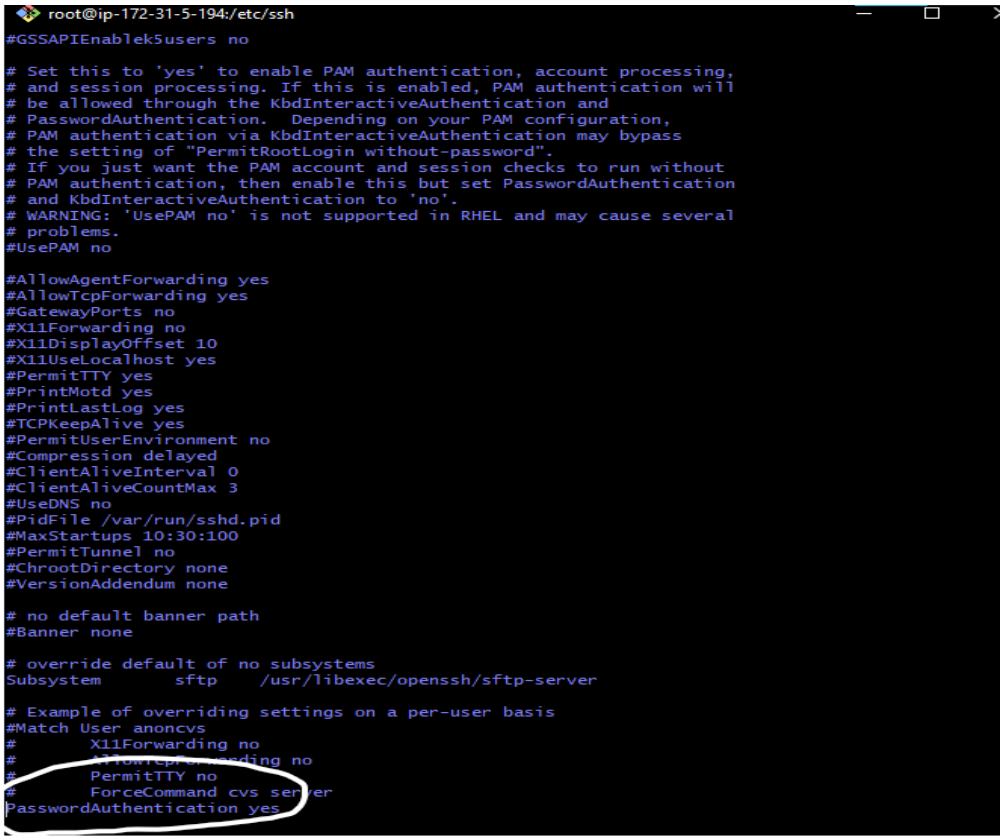
- Create two instances Server 1(master) And Server2(client)
- Create the ssh-keygen in the Server1

Step 2:

- Open that key cat /root/.ssh/id_rsa.pub
- Copy that key
- Go to server 2and paste it into the Server2 vi /root/.ssh/authorized_keys
- Paste the key at top

Step 3:

- Now change the configuration setting of both Servers vi/etc/ssh/sshd_confg
- Change only the Password authentication to yes
- Then restart the sshd in both Servers after the configuration
- Systemctl restart sshd



Step 4:

- Now write ssh root@public ip of client
- Now you can access the Server 2 From Server 1

Now we have to do rsync (Sync the content of Server1 into Server2):

The command for the rsync is

rsync [OPTION] -e ssh [SRC]... [USER@]HOST:DEST

- rsync -av -e ssh /root/amrit/* root@65.0.7.1:/root/aps/

The files from the source destination will be copied in the receiver destination

Rsync Option description

- -a, --archive (tells sync directories recursively, transfer special and block devices, preserve symbolic links, modification times, groups, ownership, and permissions.
- -z, --compress (used to compress the data if conneaction is slow)

- -P, --partiall progress (tells progress bar during transfer, used when transferring large file over a slow and unstable network.
- -e (to use ssh)
- -v –verbose output (Displays the details of the transfer.

Automate rsync:

Now we have the automate the process of rsync so that it can sync automatically without writing commands again and again

Step 1:

- Firstly create a script file in which you have to define the rsync command
- First create a directory in Server and and create a script in that directory

  vi script

- !/bin/sh
- rsync -azz -e ssh /root/aps1/* root@65.0.7.1:/root/aps/
  [the rsync takes file from /root/aps1 and sync it into the another(destination) server's /root/aps/ directory]
- save and exit

- chmod +x script

Step 2:

Now create cronjob

- crontab -e

- a vi file will appear
- write a comment #backup everyminute
-
- * * * * * /root/scripts/script (give the address of your script)cd

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[root@ip-172-31-15-196 scripts]# crontab -l
#photos backup everytime

* * * * * /root/scripts/script
```

MIN HOUR DOM MON DOW CMD

* * * * * Stars mean after every minute it will sync the data

Field	Description	Allowed Value
MIN	Minute field	0 to 59
HOUR	Hour field	0 to 23
DOM	Day of Month	1-31
MON	Month field	1-12
DOW	Day Of Week	0-6
CMD	Command	Any command to be executed.