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 2 and paste it into the Server 2 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

```
## root@ip-172-31-5-194/etc/ssh
## GSSAPIEnablekSusers no
## Set this to 'yes' to enable PAM authentication, account processing,
## and session processing. If this is enabled, PAM authentication will
## be allowed through the kbdInteractiveAuthentication on the passwordAuthentication on Depending on your PAM configuration,
## PAM authentication via kbdInteractiveAuthentication may bypass
## the setting of "PermitRootLogin without-password".
## If you just want the PAM account and session checks to run without
## PAM authentication, then enable this but set PasswordAuthentication
## and kbdInteractiveAuthentication to 'no'.
## WARNING: 'UsePAM no' is not supported in RHEL and may cause several
## problems.
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```

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

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- * * * * * /root/scripts/script (give the address of your script)cd

```
[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