Objective: Setup log based shipping in Linux.

Initial setup on Master server:

1. Create ssh key on master and copy it to standby

Syntax : ssh-keygen

Copy the ssh key to standby server

Syntax : ssh-copy-id postgres@ipadress

1. Test copying a file from master to standby without entering password
2. Shutdown Master database
3. Modify the content of postgres.conf file and edit parameters archive\_on, archive\_command and archive\_timeout.

Archive\_command: rsync -a %p postgres@ipaddress:/location of archive folder

Initial Setup Standby Database:

1. Create a archive directory on standby which is accessible by Master user.
2. Shutdown postgresql on standby
3. Delete all the contents of /Data directory

Steps:

1. Startup postgresql on Master database
2. Connect to the database using psql shell
3. Issue connect pg\_start\_backup

Syntax : select pg\_start\_backup(‘dbrep’);

1. Copy Data directory for master to standby.

Syntax : rsync -avz /var/lib/pgsql/12/data/\* postgres@192.168.1.9:/var/lib/pgsql/12/data/

1. End backup on master.

Syntax : select pg\_stop\_backup();

1. Comment out archive\_on, archive\_command and archive\_timeout parameters in postgresql.conf in standby server.
2. Setup recovery command in postgresql.conf

Restore\_command = ‘cp /var/lib/pgsql/12/archive/%f %p’

1. Create a standby.signal file in data directory.
2. Start postgres on standby server
3. Check the log files whether the postgres has entered standby mode and accepting read only connections.

Test Standby Database:

1. Try to create table and insert few records on master and check whether they are populated

On the standby .

2 ) try to create a table on standby or delete any records on standby

Failover:

1. Shutdown postgresql on master and check whether it affects standby
2. Promote your standby database to primary. Use any of the 3 methods

Pg\_ctl promote -D /var/lib/pgsql/12/data

1. Check signal.standy exist or not.
2. Bring up the postgresql old master server and try to create a table there and check whether

Its replicated.