**Steps of Postgres Master-Slave replication configuration**

**Follow the below steps to configure the postgres DB replica.**

**Master server configuration (Primary node)**

Step 1 Edit the postgres configuration file

vim /opt/postgres/9.1/data/postgresql.conf and enable the below parameter as shown below.

wal\_level = 'hot\_standby'

max\_wal\_senders = 1

wal\_keep\_segments = 50

step 2 Edit the user grant privileges file and add the slave host IP address in pg\_hba.conf file.

vim /opt/postgres/9.1/data/pg\_hba.conf

host replication postgres 10.10.11.141/32 trust

Step3 Restart the postgres service

/etc/init.d/postgres-9.1-openscg restart

Step 4. Take postgres database snapshot of data by using the below command.

psql -c "SELECT pg\_start\_backup('replbackup');"

step 5: In the current path data folder will create and tar the data folder by using below command.

tar -cvf pg\_data.tar data

Step 6: Stop the postgres backup file by using the below command.

psql -c "SELECT pg\_stop\_backup();"

Step7: Now move this data to postgre slave database server

scp -r pg\_data.tar [root@10.10.11.](mailto:root@10.10.10.5)118:/opt/postgres/9.1/

**Slave DB Server Configuration**

Step1 Stop the postgres DB services

/etc/init.d/postgres-9.1-openscg stop

Step 2 Take the backup of existing data folder from slave

mv /opt/postgres/9.1/data /opt/postgres/9.1/data.old/

Step3: extract the backup data

tar -xvf pg\_data.tar

Step4: Remove the existing postmaster.pid

rm /opt/postgres/9.1/data/postmaster.pid

step 5 : Enable the below parameter in the postgresql.conf file

vim /opt/postgres/9.1/data/postgresql.conf

hot\_standby = on

step 6. Copy the sample recovery.conf.sample file and rename it to recovery.conf.

cp -rvf /opt/postgres/9.1/share/postgresql/recovery.conf.sample /opt/postgres/9.1/data/recovery.conf

step 7: Change the ownership of recovery.conf file by using below command.

chown postgres:postgres recovery.conf

step8: enable the primary connection IP address and port number in the recovery.conf

vim opt/postgres/9.1/data/recovery.conf

standby\_mode = on

primary\_conninfo = 'host=10.10.11.118 port=5432'

step 9: For successfully configuration,Check the below log in Master and Slave server.

Ex:

**Master Server :**

LOG: database system is ready to accept connections

LOG: autovacuum launcher started

**SlaveServer:**

LOG: streaming replication successfully connected to primary

LOG: consistent recovery state reached at 0/260000C4

LOG: database system is ready to accept read only connections