

***** Logical Replication steps *****

1. Initialize two different instances for publication and subscription and start.
2. Parameters to be changed before you start the instances (for both publication and subscription instances).

```
$ vi postgresql.conf
```

```
listen_addresses='*'
port = 5432
wal_level= logical
```

3. Change in source server pg_hba.conf
Vi pg_hba.conf
host all repuser 0.0.0.0/0 md5
4. Change in target server pg_hba.conf
host all repuser 0.0.0.0/0 md5

restart both servers to implement the settings of above files.

5. Create a couple of test tables to replicate and insert some data on Publication instance.

```
postgres=# create database source_rep;
CREATE DATABASE
Time: 662.342 ms
postgres=# \c source_rep
You are now connected to database "source_rep" as user "bajishaik".
source_rep=# create table test_rep(id int primary key, name varchar);
CREATE TABLE
Time: 63.706 ms
source_rep=# create table test_rep_other(id int primary key, name varchar);
CREATE TABLE
Time: 65.187 ms
source_rep=# insert into test_rep values(generate_series(1,100), 'data' ||
generate_series(1,100));
INSERT 0 100
Time: 2.679 ms
source_rep=# insert into test_rep_other
values(generate_series(1,100), 'data' || generate_series(1,100));
INSERT 0 100
Time: 1.848 ms
source_rep=# select count(1) from test_rep;
 count
-----
    100
(1 row)

Time: 0.513 ms
```

```
source_rep=# select count(1) from test_rep_other ;
 count
-----
    100
(1 row)
```

```
Time: 0.488 ms
source_rep=#
```

6. Create structure of the tables on Subscription instance as Logical Replication does not replicate the structure

```
postgres=# create database target_rep;
CREATE DATABASE
Time: 514.308 ms
postgres=# \c target_rep
You are now connected to database "target_rep" as user "bajishaik".
target_rep=# create table test_rep_other(id int primary key, name varchar);
CREATE TABLE
Time: 9.684 ms
target_rep=# create table test_rep(id int primary key, name varchar);
CREATE TABLE
Time: 5.374 ms
target_rep=#
```

7. Create publication on Publication instance .

```
source_rep=# CREATE PUBLICATION mypub FOR TABLE test_rep, test_rep_other;
CREATE PUBLICATION
Time: 3.840 ms
source_rep=#
```

8. Create subscription on Subscription instance (port 5556) to the publication.

```
CREATE SUBSCRIPTION mysub CONNECTION 'dbname=source_rep host=localhost user=bajishaik
port=5555' PUBLICATION mypub;
NOTICE: created replication slot "mysub" on publisher
CREATE SUBSCRIPTION
Time: 81.729 ms
```