# POSTGRESDB SERVER

## HOW TO CHANGE POSTGRESDB DATA DIRECTORY.

**By default, location store data: - /var/lib/pgsql/12/data**

**Change location: - /data/data**

### Check by default location

```
[root@vivek /]# sudo -u postgres psql
psql: /usr/pgsql-14/lib/libpq.so.5: no version information available (required b
y psql)
psql: /usr/pgsql-14/lib/libpq.so.5: no version information available (required b
y psql)
psql (10.6, server 12.10)
WARNING: psql major version 10, server major version 12.
        Some psql features might not work.
Type "help" for help.

postgres=# SHOW data_directory;
    data_directory
----------------------
 /var/lib/pgsql/12/data
(1 row)
```

### Sytemctl stop service

```
[root@vivek ~]# systemctl stop postgresql-12
[root@vivek ~]# systemctl status postgresql-12
● postgresql-12.service – PostgreSQL 12 database server
   Loaded: loaded (/usr/lib/systemd/system/postgresql-12.service; enabled; v
   Active: inactive (dead) since Tue 2022-03-01 00:47:03 EST; 6s ago
     Docs: https://www.postgresql.org/docs/12/static/
  Process: 1239 ExecStart=/usr/pgsql-12/bin/postmaster -D ${PGDATA} (code=ex
  Process: 1210 ExecStartPre=/usr/pgsql-12/bin/postgresql-12-check-db-dir ${
 Main PID: 1239 (code=exited, status=0/SUCCESS)
```

### Create directory

```
[root@vivek /]# mkdir data
[root@vivek /]# ll
total 28
lrwxrwxrwx.   1 root root     7 Aug 12  2018 bin -> usr/bin
dr-xr-xr-x.   5 root root  4096 Jan 20 06:47 boot
drwxr-xr-x.   2 root root     6 Mar  1 00:48 data
```

### Change root and gname directory

```
[root@vivek /]# chown postgres:postgres /data
[root@vivek /]# ll
total 28
lrwxrwxrwx.   1 root     root        7 Aug 12  2018 bin -> usr/bin
dr-xr-xr-x.   5 root     root     4096 Jan 20 06:47 boot
drwxr-xr-x.   2 postgres postgres    6 Mar  1 00:48 data
drwxr-xr-x.  20 root     root     3280 Mar  1 00:38 dev
```

### Give permission directory

```
[root@vivek /]# chmod -R 750 /data
[root@vivek /]# ll
total 28
lrwxrwxrwx.   1 root     root        7 Aug 12  2018 bin -> usr/bin
dr-xr-xr-x.   5 root     root     4096 Jan 20 06:47 boot
drwxr-x---.   2 postgres postgres    6 Mar  1 00:48 data
drwxr-xr-x.  20 root     root     3280 Mar  1 00:38 dev
```

**C R E A T E D   B Y : -   V I V E K   G A N D H I**

# POSTGRESDB SERVER

## Rsync directory default location to change location

```
[root@vivek data]# rsync -av /var/lib/pgsql/12/data /data
sending incremental file list
data/
data/PG_VERSION
data/current_logfiles
data/pg_hba.conf
data/pg_ident.conf
data/postgresql.auto.conf
data/postgresql.conf
```

## Change configuration file

```
[root@vivek /]# vi /var/lib/pgsql/12/data/postgresql.conf
```

## Data_directory path change

```
#-----------------------------------------------------------------------
# FILE LOCATIONS
#-----------------------------------------------------------------------

# The default values of these variables are driven from the -D command-line
# option or PGDATA environment variable, represented here as ConfigDir.

data_directory = '/data/data'              # use data in another directory
                                           # (change requires restart)
```

## Service start

```
[root@vivek /]# systemctl start postgresql-12.service
[root@vivek /]# systemctl status postgresql-12.service
● postgresql-12.service - PostgreSQL 12 database server
   Loaded: loaded (/usr/lib/systemd/system/postgresql-12.service; enabled;
   Active: active (running) since Tue 2022-03-01 02:28:47 EST; 4min 19s ag
     Docs: https://www.postgresql.org/docs/12/static/
```

## Check new

```
[root@vivek /]# su - postgres
[postgres@vivek ~]$ psql
psql: /usr/pgsql-14/lib/libpq.so.5: no version information available (required by psql)
psql: /usr/pgsql-14/lib/libpq.so.5: no version information available (required by psql)
psql (10.6, server 12.10)
WARNING: psql major version 10, server major version 12.
        Some psql features might not work.
Type "help" for help.

postgres=# SHOW data_directory;
 data_directory
----------------
 /data/data
(1 row)
```

```
[root@vivek ~]# su - postgres
[postgres@vivek ~]$ psql
psql: /usr/pgsql-14/lib/libpq.so.5: no version information available (required by psql)
psql: /usr/pgsql-14/lib/libpq.so.5: no version information available (required by psql)
psql (10.6, server 12.10)
WARNING: psql major version 10, server major version 12.
        Some psql features might not work.
Type "help" for help.

postgres=# SHOW config_file;
            config_file
---------------------------------------
 /var/lib/pgsql/12/data/postgresql.conf
(1 row)

postgres=# SHOW data_directory;
    data_directory
-----------------------
 /var/lib/pgsql/12/data
(1 row)

postgres=# \q
[postgres@vivek ~]$ exit
logout
[root@vivek ~]#
```