## PostgreSQL - Environment Setup

To start understanding the PostgreSQL basics, first let us install the PostgreSQL. This chapter explains about installing the PostgreSQL on Linux, Windows and Mac OS platforms.

## Installing PostgreSQL on Linux/Unix

Follow the given steps to install PostgreSQL on your Linux machine. Make sure you are logged in as **root** before you proceed for the installation.

- Pick the version number of PostgreSQL you want and, as exactly as possible, the platform you want from EnterpriseDB
- I downloaded **postgresql-9.2.4-1-linux-x64.run** for my 64 bit CentOS-6 machine. Now, let us execute it as follows –

```
[root@host]# chmod +x postgresql-9.2.4-1-linux-x64.run
[root@host]# ./postgresql-9.2.4-1-linux-x64.run

Welcome to the PostgreSQL Setup Wizard.

Please specify the directory where PostgreSQL will be installed.

Installation Directory [/opt/PostgreSQL/9.2]:
```

Once you launch the installer, it asks you a few basic questions like location of the installation, password of the user who will use database, port number, etc. So keep all of them at their default values except password, which you can provide password as per your choice. It will install PostgreSQL at your Linux machine and will display the following message –

Follow the following post-installation steps to create your database –

```
[root@host]# su - postgres
Password:
bash-4.1$ createdb testdb
bash-4.1$ psql testdb
psql (8.4.13, server 9.2.4)
```

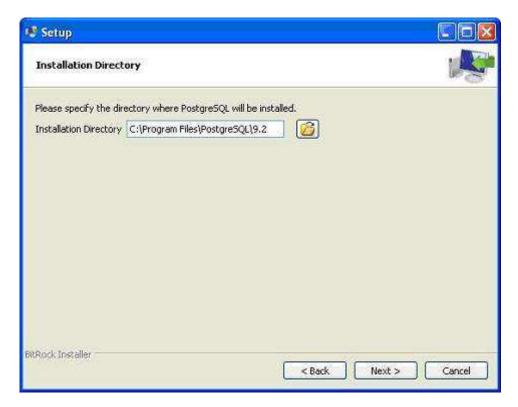
You can start/restart postgres server in case it is not running using the following command

If your installation was correct, you will have PotsgreSQL prompt test=# as shown above.

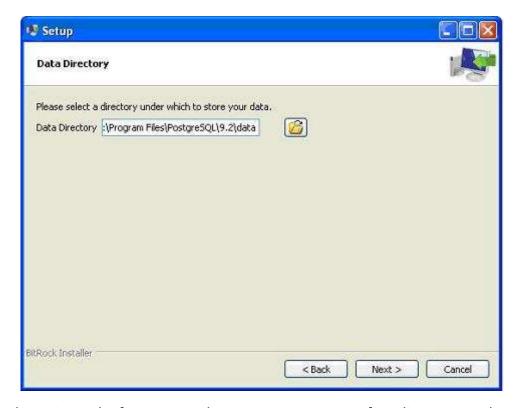
## Installing PostgreSQL on Windows

Follow the given steps to install PostgreSQL on your Windows machine. Make sure you have turned Third Party Antivirus off while installing.

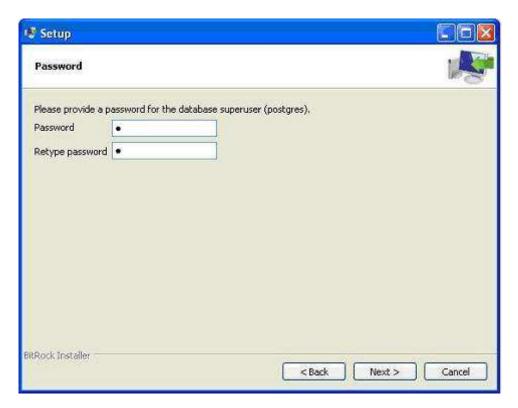
- Pick the version number of PostgreSQL you want and, as exactly as possible, the platform you want from EnterpriseDB
- I downloaded postgresql-9.2.4-1-windows.exe for my Windows PC running in 32bit mode, so let us run **postgresql-9.2.4-1-windows.exe** as administrator to install PostgreSQL. Select the location where you want to install it. By default, it is installed within Program Files folder.



• The next step of the installation process would be to select the directory where your data would be stored. By default, it is stored under the "data" directory.



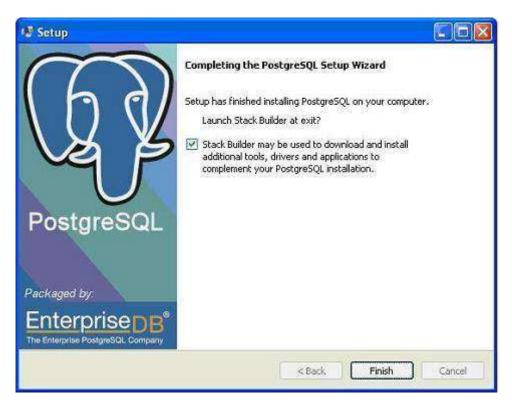
Next, the setup asks for password, so you can use your favorite password.



The next step; keep the port as default.



- In the next step, when asked for "Locale", I selected "English, United States".
- It takes a while to install PostgreSQL on your system. On completion of the installation process, you will get the following screen. Uncheck the checkbox and click the Finish button.

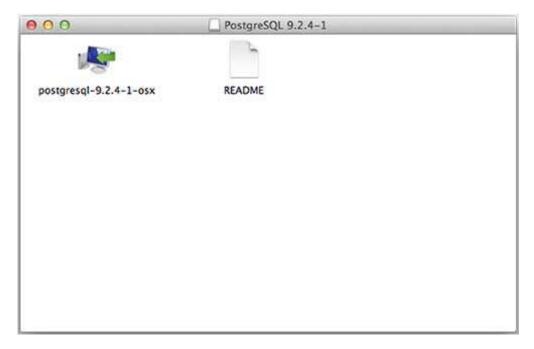


After the installation process is completed, you can access pgAdmin III, StackBuilder and PostgreSQL shell from your Program Menu under PostgreSQL 9.2.

## Installing PostgreSQL on Mac

Follow the given steps to install PostgreSQL on your Mac machine. Make sure you are logged in as administrator before you proceed for the installation.

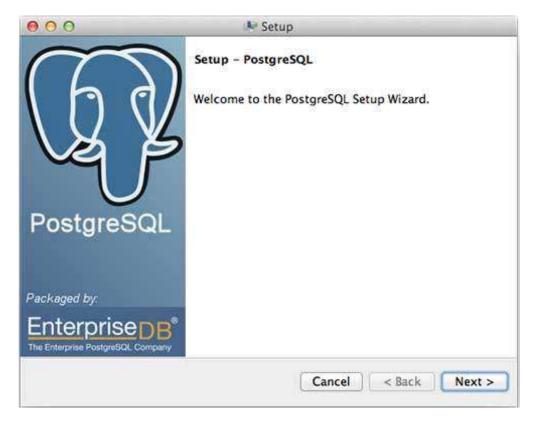
- Pick the latest version number of PostgreSQL for Mac OS available at EnterpriseDB
- I downloaded **postgresql-9.2.4-1-osx.dmg** for my Mac OS running with OS X version 10.8.3. Now, let us open the dmg image in finder and just double click it which will give you PostgreSQL installer in the following window –



Next, click the postgres-9.2.4-1-osx icon, which will give a warning message. Accept the
warning and proceed for further installation. It will ask for the administrator password as
seen in the following window –



Enter the password, proceed for the installation, and after this step, restart your Mac machine. If you do not see the following window, start your installation once again.



Once you launch the installer, it asks you a few basic questions like location of the installation, password of the user who will use database, port number etc. Therefore, keep all of them at their default values except the password, which you can provide as per your choice. It will install PostgreSQL in your Mac machine in the Application folder which you can check –



Now, you can launch any of the program to start with. Let us start with SQL Shell. When you launch SQL Shell, just use all the default values it displays except, enter your password, which you had selected at the time of installation. If everything goes fine, then

you will be inside postgres database and a **postgress#** prompt will be displayed as shown below –



Congratulations!!! Now you have your environment ready to start with PostgreSQL database programming.