# Install PostgreSQL Guide

## Preamble

This guide contains instructions to install PostgreSQL database from source code under Centos 6.5. Version of PostgreSQL chosen is 9.2.8, but steps for other version should be very similar.

## Prerequisite

* Development Tools should be installed on your Linux instance. If not, please ***yum groupinstall “Development Tools”***.
* The following development libraries are required:

readline-devel

zlib-devel

## Source code download

***wget*** [***http://ftp.postgresql.org/pub/source/v9.2.8/postgresql-9.2.8.tar.bz2***](http://ftp.postgresql.org/pub/source/v9.2.8/postgresql-9.2.8.tar.bz2)

***tar -xjf postgresql-9.2.8.tar.bz2***

## Build & Install PostgreSQL and its extra features

***cd postgresql-9.2.8***

***./configure***

***gmake world***

***gmake install-world***

Note: the last step requires root privilege.

After installation, ***ls -l /usr/local/pgsql*** to verify.

## Configure PostgreSQL

***adduser postgres***

***passwd postgres***

***mkdir -p /usr/local/pgsql/data***

***chown postgres:postgres /usr/local/pgsql/data***

***ls -ld /usr/local/pgsql/data***

***su postgres -l***

***/usr/local/pgsql/bin/initdb -D /usr/local/pgsql/data***

***ls /usr/local/pgsql/data*** to verify.

## Start PostgreSQL server

***/usr/local/pgsql/bin/postmaster -D /usr/local/pgsql/data >logfile 2>&1 &***

## Verify Installation

***/usr/local/pgsql/bin/createdb test***

***/usr/local/pgsql/bin/psql test***