

# HowTo install PostgreSQL 8.0.3 on SME Server

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**Release supported** : SME 6.xx  
**License** : GPL  
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**Problem** : Install of POSTGRESQL database  
**Solution** : Follow this HowTo

NOTE: All the installation have to been execute in ROOT

## STEP 1: Download all RPM

```
-rw-r--r-- 1 rpmmaker rpmmaker 749712 Apr 17 2002 mx-2.0.3-1.i386.rpm
-rw-r--r-- 1 rpmmaker rpmmaker 2030531 May 16 14:46 postgresql-8.0.3-1.i386.rpm
-rw-r--r-- 1 rpmmaker rpmmaker 558409 May 16 14:47 postgresql-contrib-8.0.3-1.i386.rpm
-rw-r--r-- 1 rpmmaker rpmmaker 746336 May 16 14:47 postgresql-devel-8.0.3-1.i386.rpm
-rw-r--r-- 1 rpmmaker rpmmaker 4807914 May 16 14:47 postgresql-docs-8.0.3-1.i386.rpm
-rw-r--r-- 1 rpmmaker rpmmaker 903899 May 16 14:48 postgresql-jdbc-8.0.3-1.i386.rpm
-rw-r--r-- 1 rpmmaker rpmmaker 143136 May 16 14:46 postgresql-libs-8.0.3-1.i386.rpm
-rw-r--r-- 1 rpmmaker rpmmaker 455826 May 16 14:48 postgresql-pl-8.0.3-1.i386.rpm
-rw-r--r-- 1 rpmmaker rpmmaker 57162 May 16 14:48 postgresql-python-8.0.3-1.i386.rpm
-rw-r--r-- 1 rpmmaker rpmmaker 3102671 May 16 14:47 postgresql-server-8.0.3-1.i386.rpm
-rw-r--r-- 1 rpmmaker rpmmaker 77922 May 16 14:48 postgresql-tcl-8.0.3-1.i386.rpm
```

Download all rpm from

<http://schwarzecker.homelinux.net/index.php> in the left side menu downloads, category PostgreSQL .

## STEP 2: Install all RPM

Command :

```
# rpm -Uvh --nodeps *.rpm
```

## STEP 3: Launch of Postgresql

Command :

```
# /etc/init.d/postgresql start
```

Result :

```
Initializing database:      [ OK ]
Starting postgresql service: [ OK ]
```

## STEP 4: Create configuration template

Create template directory

Command :

```
# mkdir -p /etc/e-smith/templates/var/lib/pgsql/data
# mkdir -p /etc/e-smith/templates-custom/var/lib/pgsql/data
```

Copy original config file into template directory

Command :

```
# cp /var/lib/pgsql/data/postgresql.conf /etc/e-smith/templates/var/lib/pgsql/data
# cp /var/lib/pgsql/data/pg_hba.conf /etc/e-smith/templates/var/lib/pgsql/data
# cp /var/lib/pgsql/data/postgresql.conf /etc/e-smith/templates-custom/var/lib/pgsql/data
# cp /var/lib/pgsql/data/pg_hba.conf /etc/e-smith/templates-custom/var/lib/pgsql/data
```

## STEP 5: Modify configuration files

Edit postgresql.conf

Command :

```
# pico /etc/e-smith/templates-custom/var/lib/pgsql/data/postgresql.conf
```

Modify the line with the addresses to accept TCP/IP connection

**listen\_addresses = [IP\_LOCAL]**

where IP\_LOCAL have to be replaced by your SME Server IP address

Save the file (CTRL o) and exit(CTRL x)

## STEP 6: Modify configuration files

Edit pg\_hba.conf

Command :

```
# pico /etc/e-smith/templates-custom/var/lib/pgsql/data/pg_hba.conf
```

at the end of the file there there should be the access rules like below

```
local all all trust
```

```
host all all [IP_LOCAL] [MASK] trust
```

```
host all all 0.0.0.0 255.255.255.255 reject
```

IP\_LOCAL have to be replaced by your IP

MASK have to be replaced by your subnet mask

Save the file (CTRL o) and exit(CTRL x)

## STEP 7: Expand postgres template

Command :

```
# /sbin/e-smith/expand-template /var/lib/pgsql/data/pg_hba.conf
```

```
# /sbin/e-smith/expand-template /var/lib/pgsql/data/postgresql.conf
```

## STEP 8: Restart postgresQL

Command :

```
# /etc/init.d/postgresql stop
```

```
Stopping postgresql service: [ OK ]
```

```
# /etc/init.d/postgresql start
```

```
Starting postgresql service: [ OK ]
```

## STEP 9: Testing access to postgresQL

Connect with postgres user

Command :

```
# su - postgres
```

Create a new DB test

Command :

```
# createdb postgres
```

Create a test user and return with root user

Command :

```
# createuser -A -D jesuistest
```

```
# exit
```

Connect to PostgreSQL

Command :

```
# psql postgres -h [HOSTNAME] -U jesuistest
```

HOSTNAME is to be replaced with your localhost name

Result should sound like :

```
Welcome to psql 8.0.3, the PostgreSQL interactive terminal.
```

```
Type: \copyright for distribution terms
```

```
\h for help with SQL commands
```

```
\? for help on internal slash commands
```

```
\g or terminate with semicolon to execute query
```

```
\q to quit
```

```
postgres=#>
```

and quit the PostgreSQL database

Command :

```
\q
```

Now your PostgreSQL database is ready for installations for the software which is written to connect to PostgreSQL.

## STEP 10: Automatic launching postgres

Command:

```
# ln -s /etc/init.d/postgresql /etc/rc.d/rc7.d/S56postgresql
```

```
# ln -s /etc/init.d/postgresql /etc/rc.d/rc6.d/K03postgresql
```

enjoy every day of your life Gerald