

# PG routing installation

This howto is based on the official page of PGRouting that describes the installation on Ubuntu with the previous version ( [http://www.pgrouting.org/docs/1.x/install\\_ubuntu.html](http://www.pgrouting.org/docs/1.x/install_ubuntu.html))

Environment:

```
$ lsb_release -a
No LSB modules are available.
Distributor ID: Ubuntu
Description:    Ubuntu 10.04.3 LTS
Release:       10.04
Codename:      lucid
```

## Install Required Packages

```
sudo apt-get install build-essential git-core cmake
sudo apt-get install postgresql postgresql-8.4-postgis postgresql-server-
dev-8.4
```

If you're not planning to install CGAL from Ubuntu multiverse, you can use default Boost library from the repository. This will be version 1.34 at the moment.

```
sudo apt-get install libboost-graph-dev
```

### For Driving Distance

```
sudo apt-get install libcgal*
```

Note: if you install CGAL later from Ubuntu multiverse it will upgrade to Boost 1.35. This might cause troubles if you compiled pgRouting core already with Boost 1.34.

### For TSP

```
wget http://downloads.sourceforge.net/gaul/gaul-devel-0.1850-0.tar.gz
tar -xzf gaul-devel-0.1850-0.tar.gz
cd gaul-devel-0.1850-0/
./configure --disable-slang
make
sudo make install
sudo ldconfig
```

### Compile pgRouting core (with TSP and DD flag on)

```
git clone git://github.com/pgRouting/pgrouting.git pgrouting
cd pgrouting/
cmake -DWITH_TSP=ON -DWITH_DD=ON .
```

```
make
sudo make install
```

## Setup PostgreSQL

Set local database connections to "trust" in "pg\_hba.conf" to be able to work with PostgreSQL as user "postgres". Then restart PostgreSQL.

```
sudo gedit /etc/postgresql/8.4/main/pg_hba.conf
sudo /etc/init.d/postgresql-8.4 restart
# TYPE DATABASE USER CIDR-ADDRESS METHOD
local all all trust
```

## Start postgresql daemon

```
sudo /etc/init.d/postgresql-8.4 start
```

## Create routing database

```
createdb -U postgres routing
createlang -U postgres plpgsql routing
```

## Add PostGIS functions

8.3:

```
psql -U postgres -f /usr/share/postgresql-8.3-postgis/lwpostgis.sql routing
psql -U postgres -f /usr/share/postgresql-8.3-postgis/spatial_ref_sys.sql
routing
```

8.4:

```
psql -U postgres -f /usr/share/postgresql/8.4/contrib/postgis.sql routing
psql -U postgres -f /usr/share/postgresql/8.4/contrib/spatial_ref_sys.sql
routing
```

## Add pgRouting functions

```
psql -U postgres -f /usr/share/postlbs/routing_core.sql routing
psql -U postgres -f /usr/share/postlbs/routing_core_wrappers.sql routing
psql -U postgres -f /usr/share/postlbs/routing_topology.sql routing
```

## Add TSP functions

```
psql -U postgres -f /usr/share/postlbs/routing_tsp.sql routing
psql -U postgres -f /usr/share/postlbs/routing_tsp_wrappers.sql routing
```

## Add Driving Distance functions

```
psql -U postgres -f /usr/share/postlbs/routing_dd.sql routing
psql -U postgres -f /usr/share/postlbs/routing_dd_wrappers.sql routing
```

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