

Getting Started with PostgreSQL

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2018-03-01

PostgreSQL on the Desktop - single user

Download the installer

1. Go to EnterpriseDB download site
<https://www.enterprisedb.com/downloads/postgres-postgresql-downloads>.
2. Select the latest version (10.2)
3. Select your operating system (Windows, Mac or Linux - yes, it works on Linux)

Installation

Install StackBulder but don't start it yet

Connecting with pgAdmin

Exploring the tree

Creating a database

Creating tables - DDL

Reading a CSV file into a table

Backing up a database

Restoring a database

Creating a query

PostgreSQL on a (Linux) Server

Two dialects of Linux

- ▶ Ubuntu 16.04.x LTS (most popular)
- ▶ RHEL 7 / CentOS 7

Docker container

- ▶ Debian stable - similar to Ubuntu
- ▶ Alpine - avoid this unless you want to do a lot of research

The PGDG repositories

Configuring

- ▶ Initializing the cluster
- ▶ Enabling and starting the service

Listening address and port

Authentication

Fine-grained permissions and roles

Tablespaces

PostGIS

Reading in GIS data

- ▶ Shapefiles
- ▶ “GDB” databases
- ▶ OpenStreetMap data

Tagging points with a geometry column

Geocoding

Spatial joins

pgRouting - what it can do