

Course: PostgreSQL Database Administration

This course is designed to give you hands-on, end-to-end coverage of PostgreSQL administration.

Length: 2 days

Prerequisites

It is assumed attendees are familiar with:

- ✧ simple SQL statements
- ✧ basic server administration

Format

There are a number of sessions made up of both instructional training and student worklab exercises. Everyone has a computer to do the exercises.

Introduction to PostgreSQL

- ✧ PostgreSQL Architecture
- ✧ New features in PostgreSQL 8.x
- ✧ PostgreSQL data structures

Installation of PostgreSQL

- ✧ Building and Installing PostgreSQL on both Linux and Windows
- ✧ Configuring, starting, and stopping the server
- ✧ Creating databases and schemas
- ✧ Hardware configuration
- ✧ Drive allocation and Tablespace

Maintaining PostgreSQL

- ✧ Using psql client
- ✧ Using tools such as pgAdmin and phpPgAdmin
- ✧ Monitoring PostgreSQL health
- ✧ Users and access control
- ✧ Security techniques
- ✧ Logs
- ✧ Backups/Restore/Disaster Recovery
- ✧ Using VACUUM and write-ahead logging

Replication and Clustered PostgreSQL

- ✧ Profiling and benchmarking
- ✧ Performance tuning
- ✧ Replication with Slony-I
- ✧ Transactions
- ✧ Clustering techniques

Fine Tuning PostgreSQL

- ✧ Profiling and benchmarking
- ✧ Performance tuning
- ✧ Query plans