

Course: Advanced PostgreSQL

Length: 1 day

Teacher: Gavin Sherry

Target Audience:

- *PostgreSQL Database Administration course attendees*
- *PostgreSQL DBAs looking to increase their knowledge*
- *DBAs without knowledge of PostgreSQL but with extensive knowledge of other database systems*
- *Developers looking to learn more about PostgreSQL*

Advanced PostgreSQL Configuration

- An exhaustive review of PostgreSQL configuration
- A look at hardware configuration for different workloads, reliability requirements and budgets
- Operating system level configuration for a database environment

Advanced PostgreSQL Administration

- Understanding what PostgreSQL is doing
- Monitoring PostgreSQL activity
- Identifying long running queries and transactions
- Analysing PostgreSQL's utilisation of system resources
- How to identify hardware upgrade requirements

An Introduction to Scripting in PL/PgSQL

- Language structure and use
- Using PL/PgSQL for data maintenance
- Using PL/PgSQL to manage data integrity

Managing a Database Schema

- Using rules, views, triggers, referential integrity and partitioning to increase database performance, data integrity and application capabilities
- Identifying poorly designed database layouts and how to fix them

Advanced SQL

- Taking advantage of powerful SQL language features in PostgreSQL
- Implementing full text indexing in PostgreSQL

Disaster Recovery and PostgreSQL

- Preparing for the worst
- Identifying what has gone wrong
- Recovering from disaster

PostgreSQL 8.2 preview