

# Course: Advanced PostgreSQL

## Length: 1 day

### 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 system
- ✧ 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