

Course Outline: PostgreSQL Database Administration

Pre-requisites:

Basic experience in database administration and knowledge of RDBMS concepts Basic experience with the use of the Linux operating system is helpful.

Target Audience:

This course is intended for DBAs and IT Professionals who are responsible for administration and maintenance of PostgreSQL.

Objectives:

This course presents the PostgreSQL database architecture and core administrative tasks including configuration, maintenance, monitoring, backups, recovery, and moving data. It also introduces learners to enterprise class tools for Postgres administration and prepares them to handle real time, production environments.

Software Requirement:

CentOS-7 on Oracle Virtual Box with access to root account.

Duration: 5 days

- Introduction
- System Architecture
- Installation and Database Clusters
- Configuration
- Creating and Managing Databases
- User Tools - CUI and GUI
- Security
- SQL Primer
- Backup, Recovery and PITR
- Routine Maintenance Tasks
- Data Dictionary
- Loading and Moving Data
- SQL Tuning
- Performance Tuning
- Streaming Replication
- Connection Pooling using pgpool-II
- Table Partitioning
- Extensions
- Monitoring
- Upgrading Best Practices