

PostgreSQL Administration (Duration 40 Hours)

About the Course:

Designed for database professionals who are responsible for administration and maintenance of PostgreSQL, who want to increase proficiency and learn best practices with 9.4.

Required Prerequisites : Operating system and DBMS / RDBMS knowledge and SQL

Postgres DBA Foundations

- Postgres System Architecture
- Getting Started – installation, setting env. variables, creating a cluster, connecting to the server
- Configuration – connection, authentication, WAL, log, vacuum settings and more
- Creating and Managing Databases – object hierarchy, databases, schemas, roles, users, groups and access control
- Introduction to PSQL – basic conventions, commands and parameters
- Using pgAdmin III
- Security Basics – configuration, access control, ownership, etc.
- SQL Primer – data types, basic queries, functions, constraints, views, sequences, indexes
- Backup and Recovery – backup types and strategies
- Point-in Time Recovery
- Routine Maintenance – query plan, table statistics, vacuuming, re-indexing, and more
- Postgres Data Dictionary
- Moving Data

Advanced DBA

- Transactions and Concurrency
- Performance Tuning
- Table Partitioning
- High Availability & Replication
- Monitoring
- Extension Modules