

Administering PostgreSQL database server



Purpose of the training

The training is addressed to administrators, who have just started working with PostgreSQL databases, and administrators who would like to consolidate their knowledge.



Benefits of completing the training

The participants will gain knowledge about architecture, configuration, functionalities and operations of PostgreSQL database server.

The training covers such topics as: software deployment, security configuration, database backup and recovery, database replication, query performance management foundations, server operation monitoring and diagnostics.



Expected Listener Preparation

General knowledge of IT topics and relational databases concepts (including SQL), as well as good computer skills.



Training Language

- Training: English
- Materials: English



Duration

3 days / 21 hours

Training agenda

- PostgreSQL 14 database server architecture and configuration
- Database server management (installation, upgrade, initialisation, starting, stopping)
- Physical and logical server structures (databases, tablespaces, schemas)
- Vacuum, Analyze, Reindex operations
- Security management (roles, privileges)
- Database server monitoring (logs, Statistics Collector, auditing)
- Protecting databases from failures (logical and physical backups, Disaster Recovery)
- Database replication mechanisms (standard physical and logical replication)
- Overview of query optimisation topics and performance management (Query Planner, statistics, configuration, execution plans)