

training code: pgSQL-ADM / ENG DL 3d / EN

Administering PostgreSQL database server

Reliable database environments depend on proper administration, secure configuration, and effective operational management. This course provides practical knowledge of PostgreSQL server administration, covering installation, configuration, user and privilege management, backup and recovery, security, monitoring, and routine maintenance tasks. Upon completion, you will be able to confidently administer PostgreSQL database servers, maintain secure and stable environments, and apply best practices to support business-critical database systems.



Training recipients

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



Benefits

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.



Training program

- PostgreSQL 16 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, Cumulative Statistics, 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)



Expected preparation of the participant

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



Training Includes

- 3 days of work with a trainer
- Trainer's supervision
- Contact with community
- Coursebook
- Lab environment

Training method

- lecture
- workshops



Duration

3 days / 21 hours

Language

- Training: English
- Materials: English