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Sign up

Timescale training

2 days (14 hours)

Presentation

This Timescale training course will enable you to master the installation, configuration and use of TimescaleDB for time data management and analysis.

You'll also learn how to use integrated visualization and analysis tools, such as Grafana, to gain detailed insights into your data.

Thanks to this program, your team will be able to improve time series management, optimize application performance and set up customized alerts and dashboards for effective supervision.

Following this course, you'll be able to install, configure and administer TimescaleDB, as well as understand its architecture. As with all our training courses, this one will introduce you to the [latest stable release](#) and its new features.

Objectives

- Understanding the basic principles and installation of TimescaleDB
- Master advanced writing and querying of temporal data
- Apply data ingestion and migration strategies
- Managing security, users and access in TimescaleDB
- Solve common problems and optimize TimescaleDB performance

Target audience

- System administrators
- DevOps
- Infrastructure engineers
- Application managers

- Incident managers
- Developers

Prerequisites

- Understanding of general IT and monitoring concepts.
- Basic knowledge of PostgreSQL.

OUR TIMESCALE TRAINING PROGRAM

INTRODUCTION TO TIMESCALEDB

- Overview of TimescaleDB and its benefits
- TimescaleDB installation and initial configuration
- Creating your first Timescale service
- Introduction to tables and hypertables
- Basic principles of time data management

ADVANCED USE OF TIMESCALEDB

- Data writing and querying techniques
- Using PopSQL to simplify SQL queries
- Understanding and using time buckets
- Schema management and data compression
- Advanced TimescaleDB configuration

INTEGRATION AND MIGRATION

- Strategies for ingesting data from other sources
- Using PostgreSQL extensions to extend functionality
- Practical approaches to data migration with and without interruption
- Discussion of best practices for low-downtime migration

ADMINISTRATION AND AUTOMATION

- User management and access security techniques
- Configuring VPC Peering and AWS PrivateLink
- Backup and restore methods, including Point-In-Time Recovery (PITR)
- Create and manage user-defined actions to automate administrative tasks

SECURITY AND COMPLIANCE IN TIMESCALEDB

- Database and data security management
- Understand and apply compliance and security best practices
- TimescaleDB-specific safety restrictions and how to deal with them

TROUBLESHOOTING AND SUPPORT

- Methods for solving common problems in TimescaleDB
- Using information views for diagnosis and optimization
- Practical tips for monitoring and alerting to maintain performance and availability

Companies concerned

This training course is aimed at both individuals and companies, large or small, wishing to train their teams in a new advanced computer technology, or to acquire specific business knowledge or modern methods.

Positioning on entry to training

Positioning at the start of training complies with Qualiopi quality criteria. As soon as registration is finalized, the learner receives a self-assessment questionnaire which enables us to assess his or her estimated level of proficiency in different types of technology, as well as his or her expectations and personal objectives for the training to come, within the limits imposed by the selected format. This questionnaire also enables us to anticipate any connection or security difficulties within the company (intra-company or virtual classroom) which could be problematic for the follow-up and smooth running of the training session.

Teaching methods

Practical course: 60% Practical, 40% Theory. Training material distributed in digital format to all participants.

Organization

The course alternates theoretical input from the trainer, supported by examples, with brainstorming sessions and group work.

Validation

At the end of the session, a multiple-choice questionnaire verifies the correct acquisition of skills.

Sanction

A certificate will be issued to each trainee who completes the course.