

PostgreSQL Advanced Administration

Cursusduur: 2 Dagen Cursuscode: PSQLADVADM Trainingsmethode: Virtual Learning

Beschrijving:

PostgreSQL Advanced Administration Course Overview

English - Please note this course is only available in English.

Nederlands - Let op: deze training is alleen in het Engels beschikbaar.

Français - Veuillez noter que ce cours est uniquement disponible en anglais.

This PostgreSQL Advanced Administration course covers database upgrades, database security, table partitioning, and both streaming r

Virtueel en Klassikaal™

Virtueel en Klassikaal™ is een eenvoudig leerconcept en biedt een flexibele oplossing voor het volgen van een klassikale training. Met Virtueel en Klassikaal™ kunt u zelf beslissen of u een klassikale training virtueel (vanuit huis of kantoor) of fysiek op locatie wilt volgen. De keuze is aan u! Cursisten die virtueel deelnemen aan de training ontvangen voor aanvang van de training alle benodigde informatie om de training te kunnen volgen.

Doelgroep:

Who will the Course Benefit?

This PostgreSQL Advanced Administration course is designed for professional database administrators of PostgreSQL 10,11,12,13,14,15 and 16 databases who need to be able to successfully plan and implement the upgrade of a PostgreSQL database. The course covers Streaming Replication in PostgreSQL, how it can be used to achieve automatic failovers and setup a highly available PostgreSQL Database Cluster and the replication of individual objects using Logical Replication. The course also covers how security can be managed in a PostgreSQL database, including encrypted TCP/IP connections and encrypted data, and how to split large tables into smaller physical pieces using Table Partitioning. This course is suitable for users of PostgreSQL 9 databases.

Doelstelling:

- Course Objectives
- This training is designed for experienced Database Administrators and Architects who want to learn advanced administration techniques for implementing High Availability and Database Security in PostgreSQL.
- The delegate will also learn how to upgrade a PostgreSQL database successfully.

Vereiste kennis en vaardigheden:

■ This course assumes a good working knowledge of SQL and specifically of PostgreSQL Administration. This can be obtained by attendance on the pre-requisite PostgreSQL Administration course.

This course is run on a Linux operating system, therefore a good working knowledge of UNIX/Linux is required. This knowledge can be gained by attendance on the pre-requisite Linux Introduction course

Vervolgcurssussen:

Further Learning

- PostgreSQL for Developers
- Python Programming 1
- PHP Developer

Cursusinhoud:

PostgreSQL Advanced Administration Training Course Course Contents - DAY 1

Course Introduction

- Administration and Course Materials
- Course Structure and Agenda
- Delegate and Trainer Introductions

Session 1: DATABASE UPGRADES

- PostgreSQL Versioning
- Plan an Upgrade
- Upgrade using pg_dump
- Upgrade using pg_upgrade
- Post Upgrade Tasks
- Overview of upgrading using Logical Replication

Session 2: DATABASE SECURITY

- Client Authentication Control
- Password handling
- User and Role management
- Row Level Security
- Encryption Options
- Encrypt Specific Columns with the pgcrypto Module
- The Performance Implications of Encryption

Session 3: CONTROL ACCESS TO THE SERVER

- Secure TCP/IP Connections with SSL
- Secure TCP/IP Connections with SSH Tunnels PostgreSQL Advanced Administration Training Course Course Contents - DAY 2

Session 4: TABLE PARTITIONING

- Overview of Table Partitioning
- Declarative Table Partitioning
- Create a Partitioned Table
- Query Performance
- Detach and Attach Partitions
- Table Partitioning New Features
- Table Partitioning using Inheritance

Session 5: STREAMING REPLICATION

- Configure Streaming Replication
- Standby Setup
- Create a Replication User
- Stop and Start Replication
- Monitor Replication
- Replication Failover and Failback
- Timelines
- Manage Conflicts
- Synchronous Replication
- Replication Slots
- Physical Replication Slot Handling

Session 6: LOGICAL REPLICATION

- Logical Replication Architecture
- Features of Logical Replication
- Advantages of Logical Replication
- Limitations of Logical Replication
- The CREATE PUBLICATION Command
- The CREATE SUBSCRIPTION Command
- Logical Replication Slot Handling
- Monitoring Logical Replication

Nadere informatie:

Neem voor nadere informatie of boekingen contact op met onze Customer Service Desk 030 - 60 89 444

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