

# Course name: MariaDB and PostgreSQL

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## Target

DevOps, Application Developers, Architecture Designers

## Prerequisites

Linux Basic Knowledge, ANSI SQL Basic Knowledge, RDBMS Basic Understanding

## Course description

HILF provides extensive overview about the world's most popular open source database - MariaDB and PostgreSQL RDBMS.

The course will cover the advanced features such as Performance Tuning, High Availability, Scalling and more.

The students will acquire a skill set and tools such to tune and preform advanced elements such as identifying and dealing with bottlenecks.

This course combines a strong and up to date theory knowledge over MySQL and PostgreSQL RDBMS as well as practical demonstrations and examples from real - world use cases.

The course objectives are for users to understand:

- mySQL Architecture
- improve and optimize database performance and enhance reliability
- perform installations and upgrades tasks step by step

## Course material and exercise

- Print material (English)

## Course topics

### Day 1 - MariaDB and MySQL

- History And Introduction
- Architecture Overview
- Storage Engines
- Database Management
- Identifying Slow Queries
- Replication Configuration

### Day 2 - PostgreSQL

- History And Introduction
- Architecture Overview
- Storage Engines
- Database Management
- Identifying Slow Queries
- Replication Configuration

### Day 3 - MariaDB and PostgreSQL - Practise

- Management Tools
- HA configurations