Google Understanding Cloud Spanner

Cursusduur: 3 Dagen Cursuscode: GO8339

Beschrijving:

Learn to build and administer Cloud Spanner databases, execute queries and transactions, and integrate scalable relational data services into cloud-native applications.

In this course, you learn about Cloud Spanner. You will get an introduction to Cloud Spanner and understand how it differs from other database products. You also learn when and how to use Cloud Spanner to solve your relational database needs at scale.

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Doelgroep:

- Customers

Doelstelling:

- **After this course participants should be able to:**
- Build scalable, managed, relational databases by using Cloud Spanner.
- Create and manage Cloud Spanner databases by using the CLI, Terraform, Python API, and the Google Cloud console.
- Program and run queries and transactions by using the Cloud Spanner API
- Integrate Cloud Spanner with applications

Vereiste kennis en vaardigheden:

Some prior Google Cloud experience at the fundamental level and experience with relational databases, the SQL language, and some programming are assumed.

Examens en certificering

- This course supports preparation for the Google Professional Cloud Database Engineer Exam

Vervolgcursussen:

None

Cursusinhoud:

Module 01: The Need for Spanner

- What is Spanner?
- Spanner and the CAP Theorem
- History of Spanner
- Cloud Spanner Use Cases

Module 02: Getting Started with Spanner

- Planning Spanner Instances
- Automating Instance Creation
- Creating Databases in Spanner

Module 03: Optimizing Spanner Schemas

- Spanner Architecture
- Primary Keys
- Schemas
- Interleaving ; Foreign Keys
- Secondary Indexes

Module 04: Programming Applications, Queries, and Transactions

- Authentication ; Authorization
- Client Libraries
- Queries
- Transactions

Module 05: Deploying Spanner Applications

- Using Spanner in Apps
- Building Data Pipelines

Module 06: Spanner Administration

- Data Management
- Change Operations

Module 07: Best Practices

- Spanner Best Practices
- Challenge Lab

Extra informatie:

Official course book provided to participants.

Nadere informatie:

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

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