Google Cloud

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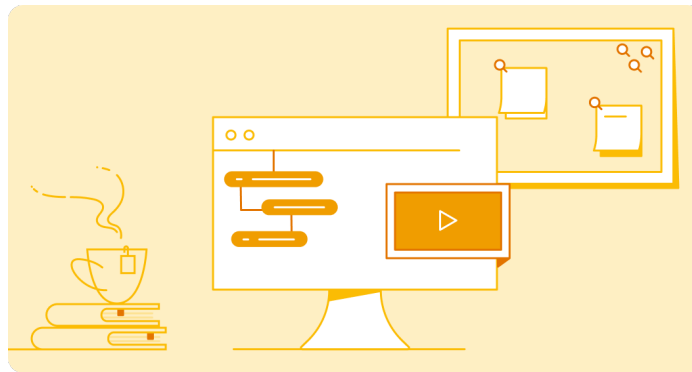
Apply your skills in Google Cloud console

Database Engineer Learning Path

A Database Engineer designs, plans, tests, implements, and monitors database migrations.

| school | 9 activities | update | Last updated 3 months | person | Managed by Google Cloud |

A Database Engineer designs, creates, manages, migrates, and troubleshoots databases used by applications to store and retrieve data. This learning path guides you through a curated collection of on-demand courses, labs, and skill badges that provide you with real-world, hands-on experience using Google Cloud technologies essential to the Database Engineer role. Once you complete the path, check out our catalog for 700+ labs and courses to keep going on your professional journey.

Start learning path

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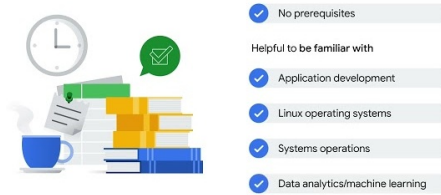
01 A Tour of Google Cloud Hands-on Labs

book Lab
access_time 45 minutes
show_chart Introductory

In this first hands-on lab you will access the Google Cloud console and use these basic Google Cloud features: Projects, Resources, IAM Users, Roles, Permissions, and APIs.

Start lab

02 Google Cloud Fundamentals: Core Infrastructure

book Course
access_time 5 hours
show_chart Introductory

Google Cloud Fundamentals: Core Infrastructure introduces important concepts and terminology for working with Google Cloud. Through videos and hands-on labs, this course presents and compares many of Google Cloud's computing and storage services, along with important resource and policy management...

Start course

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03 Select a Google Cloud Database for Your Applications

book Course
access_time 6 hours
show_chart Introductory

In this course, you learn to analyze and choose the right database for your needs, to effectively develop applications on Google Cloud. You explore relational and NoSQL databases, dive into Cloud SQL, AlloyDB, and Spanner, and learn how to align...

Start course

Learn how to...

- Migrate on-premises enterprise databases to Google Cloud.
- Evaluate on-premises database architectures and plan migrations.
- Choose appropriate Google Cloud databases.
- Assess, plan, deploy, and optimize migrations to Google Cloud.
- Deploy a secure network architecture.
- Administer SQL Server or Oracle databases in Google Cloud.

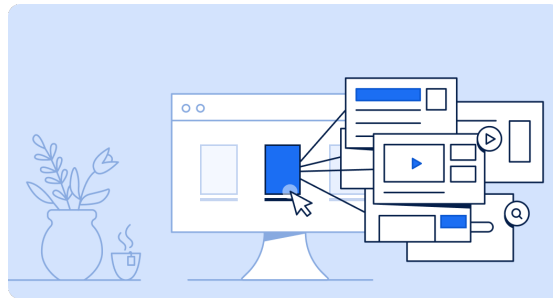(/paths/22/course_templates/145)

04 Enterprise Database Migration

book Course
access_time 32 hours
show_chart Intermediate

This course is intended to give architects, engineers, and developers the skills required to help enterprise customers architect, plan, execute, and test database migration projects. Through a combination of presentations, demos, and hands-on labs participants move databases to Google Cloud...

Start course

(/paths/22/course_templates/629)

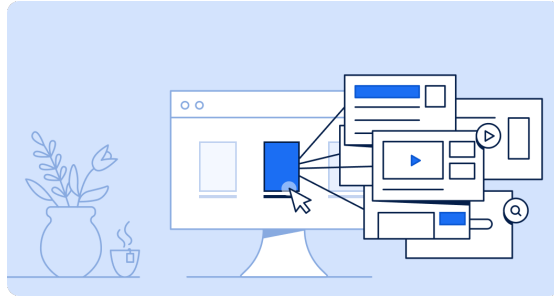# 05 Migrate MySQL data to Cloud SQL using Database Migration Service

book Course
access_time 6 hours 45 minutes
show_chart Introductory

Complete the introductory Migrate MySQL data to Cloud SQL using Database Migration Services skill badge to demonstrate skills in the following: migrating MySQL data to Cloud SQL using different job types and connectivity options available in Database Migration Service and...

Start course

(/paths/22/course_templates/652)

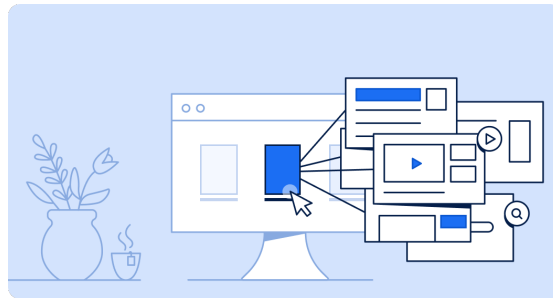# 06 Create and Manage Cloud SQL for PostgreSQL Instances

book Course
access_time 1 hour 15 minutes
show_chart Introductory

Complete the introductory Create and Manage Cloud SQL for PostgreSQL Instances skill badge to demonstrate skills in the following: migrating, configuring, and managing Cloud SQL for PostgreSQL instances and databases.

Start course

(/paths/22/course_templates/643)

07 Create and Manage Cloud Spanner Instances
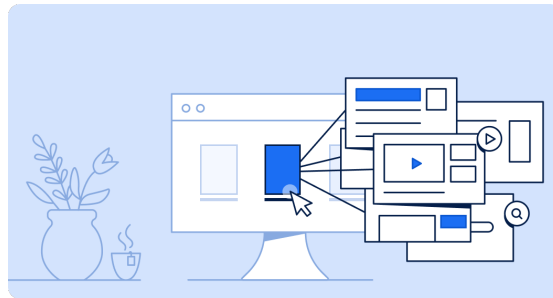
book Course

access_time 1 hour 45 minutes

show_chart Introductory

Complete the introductory Create and Manage Cloud Spanner Instances skill badge to demonstrate skills in the following: creating and interacting with Cloud Spanner instances and databases; loading Cloud Spanner databases using various techniques; backing up Cloud Spanner databases; defining schemas...

Start course

(/paths/22/course_templates/650)

08 Create and Manage Bigtable Instances

book Course
access_time 1 hour 45 minutes
show_chart Introductory

Complete the introductory Create and Manage Bigtable Instances skill badge to demonstrate skills in the following: creating instances, designing schemas, querying data, and performing administrative tasks in Bigtable including monitoring performance and configuring node autoscaling and replication.

Start course