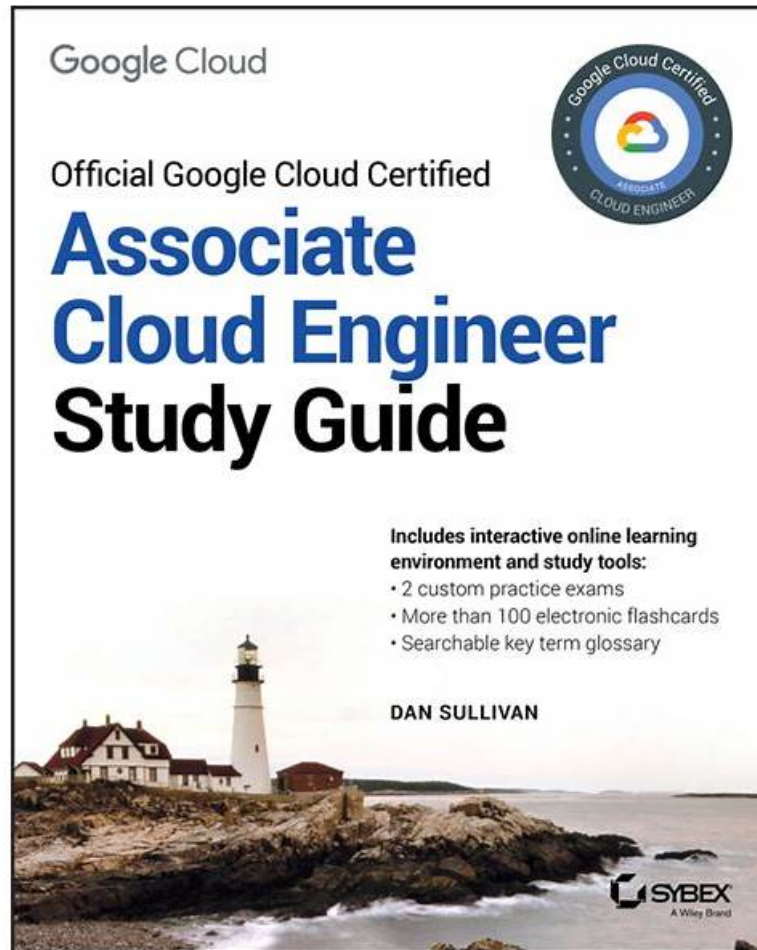


# Professional-Cloud-Database-Engineer Study Guide Pdf | Professional-Cloud-Database-Engineer Free Practice Exams



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The Google Professional-Cloud-Database-Engineer desktop-based practice exam is compatible with Windows-based computers and only requires an internet connection for the first-time license validation. The web-based Google Cloud Certified - Professional Cloud Database Engineer (Professional-Cloud-Database-Engineer) practice test is accessible on any browser without needing to install any separate software. Finally, the Google Cloud Certified - Professional Cloud Database Engineer (Professional-Cloud-Database-Engineer) dumps pdf is easily portable and can be used on smart devices or printed out.

Google Professional-Cloud-Database-Engineer exam is a certification exam offered by Google Cloud that tests an individual's knowledge and skills in designing, developing, and managing cloud-based database solutions using Google Cloud Platform. Google Cloud Certified - Professional Cloud Database Engineer certification is designed for individuals who have experience in database administration, database development, and cloud computing.

Google Professional-Cloud-Database-Engineer certification exam consists of multiple choice and scenario-based questions, and you will have two hours to complete the exam. Professional-Cloud-Database-Engineer Exam covers a wide range of topics, including designing and implementing databases, managing database operations and maintenance, optimizing database performance, and ensuring data security and compliance. Professional-Cloud-Database-Engineer exam is designed to test your practical skills and knowledge in handling real-world scenarios related to database management on Google Cloud.

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## Google Cloud Certified - Professional Cloud Database Engineer Sample Questions (Q133-Q138):

### NEW QUESTION # 133

You are writing an application that will run on Cloud Run and require a database running in the Cloud SQL managed service. You want to secure this instance so that it only receives connections from applications running in your VPC environment in Google Cloud. What should you do?

- **A. Create your instance with a specified internal (private) IP address.**  
Choose the VPC with private service connection configured.  
Configure the Serverless VPC Access connector in the same VPC network as your Cloud SQL instance.  
Use Cloud SQL Auth proxy to connect to the instance.
- B. Create your instance with a specified external (public) IP address.  
Choose the VPC and create firewall rules to allow only connections from Cloud Run into your instance.  
Use Cloud SQL Auth proxy to connect to the instance.
- C. Create your instance with a specified internal (private) IP address.  
Choose the VPC with private service connection configured.  
Configure the Serverless VPC Access connector in the same VPC network as your Cloud SQL instance.  
Connect to the instance using a connection pool to best manage connections to the instance.
- D. Create your instance with a specified external (public) IP address.  
Choose the VPC and create firewall rules to allow only connections from Cloud Run into your instance.  
Connect to the instance using a connection pool to best manage connections to the instance.

**Answer: A**

### NEW QUESTION # 134

You manage a production MySQL database running on Cloud SQL at a retail company. You perform routine maintenance on Sunday at midnight when traffic is slow, but you want to skip routine maintenance during the year-end holiday shopping season. You need to ensure that your production system is available 24/7 during the holidays. What should you do?

- **A. Define a maintenance window on Sundays between 12 AM and 5 AM, and deny maintenance periods between November 1 and February 15.**
- B. Create a Cloud Scheduler job to start maintenance at 12 AM on Sundays. Pause the Cloud Scheduler job between November 1 and January 15.
- C. Build a Cloud Composer job to start a maintenance window on Sundays between 12 AM and 1 AM, and deny maintenance periods between November 1 and January 15.
- D. Define a maintenance window on Sundays between 12 AM and 1 AM, and deny maintenance periods between November 1 and January 15.

**Answer: A**

### NEW QUESTION # 135

Your organization is running a critical production database on a virtual machine (VM) on Compute Engine.

The VM has an ext4-formatted persistent disk for data files. The database will soon run out of storage space. You need to implement a solution that avoids downtime. What should you do?

- A. In the Google Cloud Console, create a new persistent disk attached to the VM, and configure the database service to move the files to the new disk.
- **B. In the Google Cloud Console, increase the size of the persistent disk, and use the `resize2fs` command to extend the disk.**
- C. In the Google Cloud Console, increase the size of the persistent disk, and use the `fdisk` command to verify that the new space is ready to use
- D. In the Google Cloud Console, create a snapshot of the persistent disk, restore the snapshot to a new larger disk, unmount the old disk, mount the new disk, and restart the database service.

**Answer: B**

Explanation:

[https://cloud.google.com/compute/docs/disks/resize-persistent-disk#resize\\_partitions](https://cloud.google.com/compute/docs/disks/resize-persistent-disk#resize_partitions)

#### NEW QUESTION # 136

You want to migrate your on-premises PostgreSQL database to Compute Engine. You need to migrate this database with the minimum downtime possible. What should you do?

- A. Create a read replica on Cloud SQL, and then promote it to a read/write standalone instance.
- B. Use Database Migration Service to migrate your database.
- **C. Create a hot standby on Compute Engine, and use PgBouncer to switch over the connections.**
- D. Perform a full backup of your on-premises PostgreSQL, and then, in the migration window, perform an incremental backup.

**Answer: C**

Explanation:

PgBouncer maintains a pool for connections for each database and user combination. PgBouncer either creates a new database connection for a client or reuses an existing connection for the same user and database. + PgBouncer is a simple PostgreSQL connection pool that allows for several thousand connections at a time. Using Kubernetes Engine to run a Helm Chart w/ PgBouncer based on the great article from futuretech-industries, we were able to set up an easily deployable system to get the most out of our CloudSQL DBs without breaking the bank. <https://medium.com/google-cloud/increasing-cloud-sql-postgresql-max-connections-w-pgbouncer-kubernetes-engine-49b0b2894820#:~:text=That%20is%20where,breaking%20the%20bank.>

#### NEW QUESTION # 137

Your organization stores marketing data such as customer preferences and purchase history on Bigtable. The consumers of this database are predominantly data analysts and operations users. You receive a service ticket from the database operations department citing poor database performance between 9 AM-10 AM every day. The application team has confirmed no latency from their logs. A new cohort of pilot users that is testing a dataset loaded from a third-party data provider is experiencing poor database performance. Other users are not affected. You need to troubleshoot the issue. What should you do?

- A. Isolate the data analysts and operations user groups to use different Bigtable instances.
- B. Check the Cloud Monitoring `table/bytes_used` metric from Bigtable.
- C. Add more nodes to the Bigtable cluster.
- **D. Use Key Visualizer for Bigtable.**

**Answer: D**

Explanation:

<https://cloud.google.com/bigtable/docs/performance#troubleshooting>

#### NEW QUESTION # 138

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