



# PROFESSIONAL-CLOUD-DATABASE-ENGINEER<sup>Q&As</sup>

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### QUESTION 1

Your customer has a global chat application that uses a multi-regional Cloud Spanner instance. The application has recently experienced degraded performance after a new version of the application was launched. Your customer asked you for assistance. During initial troubleshooting, you observed high read latency. What should you do?

- A. Use query parameters to speed up frequently executed queries.
- B. Change the Cloud Spanner configuration from multi-region to single region.
- C. Use SQL statements to analyze SPANNER\_SYS.READ\_STATS\* tables.
- D. Use SQL statements to analyze SPANNER\_SYS.QUERY\_STATS\* tables.

Correct Answer: C

To troubleshoot high read latency, you can use SQL statements to analyze the SPANNER\_SYS.READ\_STATS\* tables. These tables contain statistics about read operations in Cloud Spanner, including the number of reads, read latency, and the number of read errors. By analyzing these tables, you can identify the cause of the high read latency and take appropriate action to resolve the issue. Other options, such as using query parameters to speed up frequently executed queries or changing the Cloud Spanner configuration from multi-region to single region, may not be directly related to the issue of high read latency. Similarly, analyzing the SPANNER\_SYS.QUERY\_STATS\* tables, which contain statistics about query operations, may not be relevant to the issue of high read latency.

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### QUESTION 2

Your organization has a production Cloud SQL for MySQL instance. Your instance is configured with 16 vCPUs and 104 GB of RAM that is running between 90% and 100% CPU utilization for most of the day. You need to scale up the database and add vCPUs with minimal interruption and effort. What should you do?

- A. Issue a `gcloud sql instances patch` command to increase the number of vCPUs.
- B. Update a MySQL database flag to increase the number of vCPUs.
- C. Issue a `gcloud compute instances update` command to increase the number of vCPUs.
- D. Back up the database, create an instance with additional vCPUs, and restore the database.

Correct Answer: A

<https://cloud.google.com/sdk/gcloud/reference/sql/instances/patch>

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### QUESTION 3

Your organization has a security policy to ensure that all Cloud SQL for PostgreSQL databases are secure. You want to protect sensitive data by using a key that meets specific locality or residency requirements. Your organization needs to control the key's lifecycle activities. You need to ensure that data is encrypted at rest and in transit. What should you do?

- A. Create the database with Google-managed encryption keys.



- B. Create the database with customer-managed encryption keys.
- C. Create the database persistent disk with Google-managed encryption keys.
- D. Create the database persistent disk with customer-managed encryption keys.

Correct Answer: B

<https://cloud.google.com/sql/docs/postgres/configure-cmek#createcmekinstance>

#### QUESTION 4

You are migrating a telehealth care company's on-premises data center to Google Cloud. The migration plan specifies:

PostgreSQL databases must be migrated to a multi-region backup configuration with cross-region replicas to allow restore and failover in multiple scenarios.

MySQL databases handle personally identifiable information (PII) and require data residency compliance at the regional level.

You want to set up the environment with minimal administrative effort. What should you do?

- A. Set up Cloud Logging and Cloud Monitoring with Cloud Functions to send an alert every time a new database instance is created, and manually validate the region.
- B. Set up different organizations for each database type, and apply policy constraints at the organization level.
- C. Set up Pub/Sub to ingest data from Cloud Logging, send an alert every time a new database instance is created, and manually validate the region.
- D. Set up different projects for PostgreSQL and MySQL databases, and apply organizational policy constraints at a project level.

Correct Answer: D

#### QUESTION 5

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 1 AM, and deny maintenance periods between November 1 and January 15.
- B. Define a maintenance window on Sundays between 12 AM and 5 AM, and deny maintenance periods between November 1 and February 15.
- C. Build a Cloud Composer job to start a maintenance window on Sundays between 12 AM and 1AM, and deny maintenance periods between November 1 and January 15.



D. Create a Cloud Scheduler job to start maintenance at 12 AM on Sundays. Pause the Cloud Scheduler job between November 1 and January 15.

Correct Answer: A

"Deny maintenance period. A block of days in which Cloud SQL does not schedule maintenance. Deny maintenance periods can be up to 90 days long. " <https://cloud.google.com/sql/docs/mysql/maintenance>

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