

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

Google Cloud Certified - Professional Cloud Database Engineer

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## QUESTION 1

You are managing a Cloud SQL for PostgreSQL instance in Google Cloud. You need to test the high availability of your Cloud SQL instance by performing a failover. You want to use the cloud command.

What should you do?

- A. Use `gcloud sql instances failover` .
- B. Use `gcloud sql instances failover` .
- C. Use `gcloud sql instances promote-replica` .
- D. Use `gcloud sql instances promote-replica` .

Correct Answer: D

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## QUESTION 2

Your team recently released a new version of a highly consumed application to accommodate additional user traffic. Shortly after the release, you received an alert from your production monitoring team that there is consistently high replication lag between your primary instance and the read replicas of your Cloud SQL for MySQL instances. You need to resolve the replication lag. What should you do?

- A. Identify and optimize slow running queries, or set parallel replication flags.
- B. Stop all running queries, and re-create the replicas.
- C. Edit the primary instance to upgrade to a larger disk, and increase vCPU count.
- D. Edit the primary instance to add additional memory.

Correct Answer: C

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## QUESTION 3

Your ecommerce application connecting to your Cloud SQL for SQL Server is expected to have additional traffic due to the holiday weekend. You want to follow Google- recommended practices to set up alerts for CPU and memory metrics so you can be notified by text message at the first sign of potential issues. What should you do?

- A. Use a Cloud Function to pull CPU and memory metrics from your Cloud SQL instance and to call a custom service to send alerts.
- B. Use Error Reporting to monitor CPU and memory metrics and to configure SMS notification channels.
- C. Use Cloud Logging to set up a log sink for CPU and memory metrics and to configure a sink destination to send a message to Pub/Sub.
- D. Use Cloud Monitoring to set up an alerting policy for CPU and memory metrics and to configure SMS notification channels.

Correct Answer: B

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## QUESTION 4

You are configuring a brand new Cloud SQL for PostgreSQL database instance in Google Cloud. Your application team wants you to deploy one primary instance, one standby instance, and one read replica instance. You need to ensure that you are following Google- recommended practices for high availability. What should you do?

- A. Configure the primary instance in zone A, the standby instance in zone C, and the read replica in zone B, all in the same region.
- B. Configure the primary and standby instances in zone A and the read replica in zone B, all in the same region.
- C. Configure the primary instance in one region, the standby instance in a second region, and the read replica in a third region.
- D. Configure the primary, standby, and read replica instances in zone A, all in the same region.

Correct Answer: B

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## QUESTION 5

You are designing an augmented reality game for iOS and Android devices. You plan to use Cloud Spanner as the primary backend database for game state storage and player authentication. You want to track in-game rewards that players unlock at every stage of the game. During the testing phase, you discovered that costs are much higher than anticipated, but the query response times are within the SLA. You want to follow Google- recommended practices. You need the database to be performant and highly available while you keep costs low. What should you do?

- A. Manually scale down the number of nodes after the peak period has passed.
- B. Use interleaving to co-locate parent and child rows.
- C. Use the Cloud Spanner query optimizer to determine the most efficient way to execute the SQL query.
- D. Use granular instance sizing in Cloud Spanner and Autoscaler.

Correct Answer: C

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