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**QUESTION 1**

You are managing a set of Cloud SQL databases in Google Cloud. Regulations require that database backups reside in the region where the database is created. You want to minimize operational costs and administrative effort. What should you do?

- A. Configure the automated backups to use a regional Cloud Storage bucket as a custom location.
- B. Use the default configuration for the automated backups location.
- C. Disable automated backups, and create an on-demand backup routine to a regional Cloud Storage bucket.
- D. Disable automated backups, and configure serverless exports to a regional Cloud Storage bucket.

Correct Answer: C

QUESTION 2

Your organization works with sensitive data that requires you to manage your own encryption keys. You are working on a project that stores that data in a Cloud SQL database. You need to ensure that stored data is encrypted with your keys. What should you do?

- A. Export data periodically to a Cloud Storage bucket protected by Customer-Supplied Encryption Keys.
- B. Use Cloud SQL Auth proxy.
- C. Connect to Cloud SQL using a connection that has SSL encryption.
- D. Use customer-managed encryption keys with Cloud SQL.

Correct Answer: C

QUESTION 3

Your online delivery business that primarily serves retail customers uses Cloud SQL for MySQL for its inventory and scheduling application. The required recovery time objective (RTO) and recovery point objective (RPO) must be in minutes rather than hours as a part of your high availability and disaster recovery design. You need a high availability configuration that can recover without data loss during a zonal or a regional failure. What should you do?

- A. Set up all read replicas in a different region using asynchronous replication.
- B. Set up all read replicas in the same region as the primary instance with synchronous replication.
- C. Set up read replicas in different zones of the same region as the primary instance with synchronous replication, and set up read replicas in different regions with asynchronous replication.
- D. Set up read replicas in different zones of the same region as the primary instance with asynchronous replication, and set up read replicas in different regions with synchronous replication.

Correct Answer: C

**QUESTION 4**

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

QUESTION 5

You need to redesign the architecture of an application that currently uses Cloud SQL for PostgreSQL. The users of the application complain about slow query response times. You want to enhance your application architecture to offer sub-millisecond query latency. What should you do?

- A. Configure Firestore, and modify your application to offload queries.
- B. Configure Bigtable, and modify your application to offload queries.
- C. Configure Cloud SQL for PostgreSQL read replicas to offload queries.
- D. Configure Memorystore, and modify your application to offload queries.

Correct Answer: D

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