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QUESTION 1

You are designing a database strategy for a new web application in one region. You need to minimize write latency. What should you do?

- A. Use Cloud SQL with cross-region replicas.
- B. Use high availability (HA) Cloud SQL with multiple zones.
- C. Use zonal Cloud SQL without high availability (HA).
- D. Use Cloud Spanner in a regional configuration.

Correct Answer: A

QUESTION 2

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: B

QUESTION 3

Your organization has an existing app that just went viral. The app uses a Cloud SQL for MySQL backend database that is experiencing slow disk performance while using hard disk drives (HDDs). You need to improve performance and reduce disk I/O wait times.

What should you do?

- A. Export the data from the existing instance, and import the data into a new instance with solid-state drives (SSDs).
- B. Edit the instance to change the storage type from HDD to SSD.
- C. Create a high availability (HA) failover instance with SSDs, and perform a failover to the new instance.
- D. Create a read replica of the instance with SSDs, and perform a failover to the new instance

Correct Answer: C

QUESTION 4

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: D

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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