

PROFESSIONAL-CLOUD-DATABASE-ENGINEER^{Q&As}

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QUESTION 1

You are designing a highly available (HA) Cloud SQL for PostgreSQL instance that will be used by 100 databases. Each database contains 80 tables that were migrated from your on-premises environment to Google Cloud. The applications that use these databases are located in multiple regions in the US, and you need to ensure that read and write operations have low latency. What should you do?

- A. Deploy 2 Cloud SQL instances in the us-central1 region with HA enabled, and create read replicas in us-east1 and us-west1.
- B. Deploy 2 Cloud SQL instances in the us-central1 region, and create read replicas in us-east1 and us-west1.
- C. Deploy 4 Cloud SQL instances in the us-central1 region with HA enabled, and create read replicas in us-central1, us-east1, and us-west1.
- D. Deploy 4 Cloud SQL instances in the us-central1 region, and create read replicas in us-central1, us-east1 and us-west1.

Correct Answer: B

QUESTION 2

Your team uses thousands of connected IoT devices to collect device maintenance data for your oil and gas customers in real time. You want to design inspection routines, device repair, and replacement schedules based on insights gathered from the data produced by these devices. You need a managed solution that is highly scalable, supports a multi-cloud strategy, and offers low latency for these IoT devices. What should you do?

- A. Use Firestore with Looker.
- B. Use Cloud Spanner with Data Studio.
- C. Use MongoDB Atlas with Charts.
- D. Use Bigtable with Looker.

Correct Answer: C

QUESTION 3

You plan to use Database Migration Service to migrate data from a PostgreSQL on-premises instance to Cloud SQL. You need to identify the prerequisites for creating and automating the task. What should you do? (Choose two.)

- A. Drop or disable all users except database administration users.
- B. Disable all foreign key constraints on the source PostgreSQL database.
- C. Ensure that all PostgreSQL tables have a primary key.
- D. Shut down the database before the Data Migration Service task is started.
- E. Ensure that pglogical is installed on the source PostgreSQL database.

Correct Answer: BE

QUESTION 4

You use Python scripts to generate weekly SQL reports to assess the state of your databases and determine whether you need to reorganize tables or run statistics. You want to automate this report but need to minimize operational costs and overhead. What should you do?

- A. Create a VM in Compute Engine, and run a cron job.
- B. Create a Cloud Composer instance, and create a directed acyclic graph (DAG).
- C. Create a Cloud Function, and call the Cloud Function using Cloud Scheduler.
- D. Create a Cloud Function, and call the Cloud Function from a Cloud Tasks queue.

Correct Answer: C

QUESTION 5

You are running a transactional application on Cloud SQL for PostgreSQL in Google Cloud. The database is running in a high availability configuration within one region. You have encountered issues with data and want to restore to the last known pristine version of the database. What should you do?

- A. Create a clone database from a read replica database, and restore the clone in the same region.
- B. Create a clone database from a read replica database, and restore the clone into a different zone.
- C. Use the Cloud SQL point-in-time recovery (PITR) feature. Restore the copy from two hours ago to a new database instance.
- D. Use the Cloud SQL database import feature. Import last week's dump file from Cloud Storage.

Correct Answer: C

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