



Free Questions for **Professional-Cloud-Database-Engineer** by **vceexamstest**

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Question 1

Question Type: MultipleChoice

Your company is shutting down their on-premises data center and migrating their Oracle databases using Oracle Real Application Clusters (RAC) to Google Cloud. You want minimal to no changes to the applications during the database migration. What should you do?

Options:

- A- Migrate the Oracle databases to Cloud Spanner.
- B- Migrate the Oracle databases to Compute Engine.
- C- Migrate the Oracle databases to Cloud SQL.
- D- Migrate the Oracle databases to Bare Metal Solution for Oracle.

Answer:

D

Explanation:

This answer is correct because Bare Metal Solution for Oracle is a service that provides dedicated physical servers and networking infrastructure for running Oracle databases on Google Cloud¹. Bare Metal Solution for Oracle supports Oracle RAC, which is a cluster database that provides high availability, scalability, and performance for Oracle workloads². By using Bare Metal Solution for Oracle, you can migrate your Oracle databases with minimal to no changes to the applications, and you can leverage the native Google Cloud services and interconnectivity¹.

Question 2

Question Type: MultipleChoice

You are designing a database strategy for a new web application. You plan to start with a small pilot in one country and eventually expand to millions of users in a global audience. You need to ensure that the application can run 24/7 with minimal downtime for maintenance. What should you do?

Options:

- A- Use Cloud Spanner in a regional configuration.
- B- Use Cloud Spanner in a multi-region configuration.
- C- Use Cloud SQL with cross-region replicas.

D- Use highly available Cloud SQL with multiple zones.

Answer:

A

Explanation:

<https://docs.google.com/forms/d/e/1FAIpQLSfZ77ZnuUL0NpU-bOtO5QUkC0cnRCe5YKMiubLXwfV3abBqkg/viewform>

Question 3

Question Type: MultipleChoice

You are the primary DBA of a Cloud SQL for PostgreSQL database that supports 6 enterprise applications in production. You used Cloud SQL Insights to identify inefficient queries and now need to identify the application that is originating the inefficient queries. You want to follow Google-recommended practices. What should you do?

Options:

- A- Shut down and restart each application.
- B- Write a utility to scan database query logs.
- C- Write a utility to scan application logs.
- D- Use query tags to add application-centric database monitoring.

Answer:

D

Explanation:

https://cloud.google.com/sql/docs/postgres/using-query-insights#filter_by_query_tags

Question 4

Question Type: MultipleChoice

You have a large Cloud SQL for PostgreSQL instance. The database instance is not mission-critical, and you want to minimize operational costs. What should you do to lower the cost of backups in this environment?

Options:

- A- Set the automated backups to occur every other day to lower the frequency of backups.
- B- Change the storage tier of the automated backups from solid-state drive (SSD) to hard disk drive (HDD).
- C- Select a different region to store your backups.
- D- Reduce the number of automated backups that are retained to two (2).

Answer:

D

Explanation:

By default, for each instance, Cloud SQL retains seven automated backups, in addition to on-demand backups. You can configure how many automated backups to retain (from 1 to 365). We charge a lower rate for backup storage than for other types of instances.

<https://cloud.google.com/sql/docs/mysql/backup-recovery/backups>

Question 5

Question Type: MultipleChoice

You need to migrate a 1 TB PostgreSQL database from a Compute Engine VM to Cloud SQL for PostgreSQL. You want to ensure that there is minimal downtime during the migration. What should you do?

Options:

- A-** Export the data from the existing database, and load the data into a new Cloud SQL database.
- B-** Use Migrate for Compute Engine to complete the migration.
- C-** Use Datastream to complete the migration.
- D-** Use Database Migration Service to complete the migration.

Answer:

D

Explanation:

<https://www.cloudskillsboost.google/focuses/22792?parent=catalog>

Question 6

Question Type: MultipleChoice

Your organization is running a Firestore-backed Firebase app that serves the same top ten news stories on a daily basis to a large global audience. You want to optimize content delivery while decreasing cost and latency. What should you do?

Options:

- A- Enable serializable isolation in the Firebase app.
- B- Deploy a US multi-region Firestore location.
- C- Build a Firestore bundle, and deploy bundles to Cloud CDN.
- D- Create a Firestore index on the news story date.

Answer:

C

Explanation:

A global audience strongly suggests serving content via Google's Content Delivery Network. Changing the isolation level won't decrease cost or latency

Question 7

Question Type: MultipleChoice

You want to migrate your PostgreSQL database from another cloud provider to Cloud SQL. You plan on using Database Migration Service and need to assess the impact of any known limitations. What should you do? (Choose two.)

Options:

- A- Identify whether the database has over 512 tables.
- B- Identify all tables that do not have a primary key.
- C- Identify all tables that do not have at least one foreign key.
- D- Identify whether the source database is encrypted using pgcrypto extension.
- E- Identify whether the source database uses customer-managed encryption keys (CMEK).

Answer:

C, E

Question 8

Question Type: MultipleChoice

Your company is developing a new global transactional application that must be ACID-compliant and have 99.999% availability. You are responsible for selecting the appropriate Google Cloud database to serve as a datastore for this new application. What should you do?

Options:

- A- Use Firestore.
- B- Use Cloud Spanner.
- C- Use Cloud SQL.
- D- Use Bigtable.

Answer:

B

Question 9

Question Type: MultipleChoice

Your organization stores marketing data such as customer preferences and purchase history on Bigtable. The consumers of this database are predominantly data analysts and operations users. You receive a service ticket from the database operations department citing poor database performance between 9 AM-10 AM every day. The application team has confirmed no latency from their logs. A new cohort of pilot users that is testing a dataset loaded from a third-party data provider is experiencing poor database performance. Other users are not affected. You need to troubleshoot the issue. What should you do?

Options:

- A- Isolate the data analysts and operations user groups to use different Bigtable instances.
- B- Check the Cloud Monitoring table/bytes_used metric from Bigtable.
- C- Use Key Visualizer for Bigtable.
- D- Add more nodes to the Bigtable cluster.

Answer:

C

Explanation:

<https://cloud.google.com/bigtable/docs/performance#troubleshooting>

Question 10

Question Type: MultipleChoice

Your organization has a busy transactional Cloud SQL for MySQL instance. Your analytics team needs access to the data so they can build monthly sales reports. You need to provide data access to the analytics team without adversely affecting performance. What should you do?

Options:

- A-** Create a read replica of the database, provide the database IP address, username, and password to the analytics team, and grant read access to required tables to the team.
- B-** Create a read replica of the database, enable the `cloudsql.iam_authentication` flag on the replica, and grant read access to required tables to the analytics team.
- C-** Enable the `cloudsql.iam_authentication` flag on the primary database instance, and grant read access to required tables to the analytics team.
- D-** Provide the database IP address, username, and password of the primary database instance to the analytics, team, and grant read access to required tables to the team.

Answer:

B

Explanation:

'Read replicas do not have the `cloudsql.iam_authentication` flag enabled automatically when it is enabled on the primary instance.'

https://cloud.google.com/sql/docs/postgres/replication/create-replica#configure_iam_replicas

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