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**QUESTION 1**

You are managing multiple applications connecting to a database on Cloud SQL for PostgreSQL. You need to be able to monitor database performance to easily identify applications with long-running and resource-intensive queries. What should you do?

- A. Use log messages produced by Cloud SQL.
- B. Use Query Insights for Cloud SQL.
- C. Use the Cloud Monitoring dashboard with available metrics from Cloud SQL.
- D. Use Cloud SQL instance monitoring in the Google Cloud Console.

Correct Answer: B

<https://cloud.google.com/sql/docs/mysql/using-query-insights#introduction>

QUESTION 2

You have an application that sends banking events to Bigtable cluster-a in us-east. You decide to add cluster-b in us-central1. Cluster-a replicates data to cluster-b. You need to ensure that Bigtable continues to accept read and write requests if one of the clusters becomes unavailable and that requests are routed automatically to the other cluster. What deployment strategy should you use?

- A. Use the default app profile with single-cluster routing.
- B. Use the default app profile with multi-cluster routing.
- C. Create a custom app profile with multi-cluster routing.
- D. Create a custom app profile with single-cluster routing.

Correct Answer: C

<https://cloud.google.com/bigtable/docs/app-profiles#default-app-profile> The question states that a single cluster existed first, then a second cluster was added. Google's documentation states, "if you created the instance with one cluster, the default app profile uses single-cluster routing. This ensures that adding additional clusters later does not change the behavior of your existing applications". Simply adding a second cluster does not change the default profile from single-cluster routing to multi-cluster routing. Since you need multi-cluster routing, you're going to need a custom app profile. So C is correct. <https://cloud.google.com/bigtable/docs/app-profiles#default-app-profile>

QUESTION 3

You are running a large, highly transactional application on Oracle Real Application Cluster (RAC) that is multi-tenant and uses shared storage. You need a solution that ensures high-performance throughput and a low-latency connection between applications and databases. The solution must also support existing Oracle features and provide ease of migration to Google Cloud. What should you do?

- A. Migrate to Compute Engine.



- B. Migrate to Bare Metal Solution for Oracle.
- C. Migrate to Google Kubernetes Engine (GKE)
- D. Migrate to Google Cloud VMware Engine

Correct Answer: B

Oracle is neither licensed nor supported in GCE. The only platform which supports RAC and all existing Oracle features is BMS.

QUESTION 4

Your organization has a critical business app that is running with a Cloud SQL for MySQL backend database. Your company wants to build the most fault-tolerant and highly available solution possible. You need to ensure that the application database can survive a zonal and regional failure with a primary region of us-central1 and the backup region of us-east1. What should you do?

- A. Provision a Cloud SQL for MySQL instance in us-central1-a.

Create a multiple-zone instance in us-west1-b.

Create a read replica in us-east1-c.

- B. Provision a Cloud SQL for MySQL instance in us-central1-a. Create a multiple-zone instance in us-central1-b. Create a read replica in us-east1-b.

- C. Provision a Cloud SQL for MySQL instance in us-central1-a. Create a multiple-zone instance in us-east-b. Create a read replica in us-east1-c.

- D. Provision a Cloud SQL for MySQL instance in us-central1-a. Create a multiple-zone instance in us-east1-b. Create a read replica in us-central1-b.

Correct Answer: B

<https://cloud.google.com/sql/docs/sqlserver/intro-to-cloud-sql-disaster-recovery>

QUESTION 5

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?

- 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.

Correct Answer: B

"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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