



# PROFESSIONAL-CLOUD-DATABASE-ENGINEER<sup>Q&As</sup>

Google Cloud Certified - Professional Cloud Database Engineer

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### QUESTION 1

Your company is migrating all legacy applications to Google Cloud. All on-premises applications are using legacy Oracle 12c databases with Oracle Real Application Cluster (RAC) for high availability (HA) and Oracle Data Guard for disaster recovery. You need a solution that requires minimal code changes, provides the same high availability you have today on-premises, and supports a low latency network for migrated legacy applications.

What should you do?

- A. Migrate the databases to Cloud Spanner.
- B. Migrate the databases to Cloud SQL, and enable a standby database.
- C. Migrate the databases to Compute Engine using regional persistent disks.
- D. Migrate the databases to Bare Metal Solution for Oracle.

Correct Answer: D

BMS is the only Google database service which supports Oracle aside from GCVE. It allows you to use all native Oracle features including RAC. Since GCVE isn't mentioned, it has to be D -Bare Metal Solution.

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### QUESTION 2

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?

- 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.

Correct Answer: D

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 Cloud<sup>1</sup>. Bare Metal Solution for Oracle supports Oracle RAC, which is a cluster database that provides high availability, scalability, and performance for Oracle workloads<sup>2</sup>. 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 interconnectivity<sup>1</sup>.

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### QUESTION 3

You are designing a physician portal app in Node.js. This application will be used in hospitals and clinics that might have intermittent internet connectivity. If a connectivity failure occurs, the app should be able to query the cached data. You need to ensure that the application has scalability, strong consistency, and multi-region replication. What should you do?



- A. Use Firestore and ensure that the PersistenceEnabled option is set to true.
- B. Use Memorystore for Memcached.
- C. Use Pub/Sub to synchronize the changes from the application to Cloud Spanner.
- D. Use Table.read with the exactStaleness option to perform a read of rows in Cloud Spanner.

Correct Answer: A

<https://firebase.google.com/docs/firestore/manage-data/enable-offline>

#### QUESTION 4

You need to issue a new server certificate because your old one is expiring. You need to avoid a restart of your Cloud SQL for MySQL instance. What should you do in your Cloud SQL instance?

- A. Issue a rollback, and download your server certificate.
- B. Create a new client certificate, and download it.
- C. Create a new server certificate, and download it.
- D. Reset your SSL configuration, and download your server certificate.

Correct Answer: C

<https://cloud.google.com/sql/docs/sqlserver/configure-ssl-instance#server-certs>

#### QUESTION 5

Your organization is running a MySQL workload in Cloud SQL. Suddenly you see a degradation in database performance. You need to identify the root cause of the performance degradation. What should you do?

- A. Use Logs Explorer to analyze log data.
- B. Use Cloud Monitoring to monitor CPU, memory, and storage utilization metrics.
- C. Use Error Reporting to count, analyze, and aggregate the data.
- D. Use Cloud Debugger to inspect the state of an application.

Correct Answer: B

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