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QUESTION 1

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 2

Your project is using Bigtable to store data that should not be accessed from the public internet under any circumstances, even if the requestor has a valid service account key. You need to secure access to this data. What should you do?

- A. Use Identity and Access Management (IAM) for Bigtable access control.
- B. Use VPC Service Controls to create a trusted network for the Bigtable service.
- C. Use customer-managed encryption keys (CMEK).
- D. Use Google Cloud Armor to add IP addresses to an allowlist.

Correct Answer: B

"Users can define a security perimeter around Google Cloud resources such as Cloud Storage buckets, Bigtable instances, and BigQuery datasets to constrain data within a VPC and control the flow of data."

<https://cloud.google.com/vpcservice-controls>

QUESTION 3

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

QUESTION 4

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 5

You are designing an augmented reality game for iOS and Android devices. You plan to use Cloud Spanner as the primary backend database for game state storage and player authentication. You want to track in-game rewards that players unlock at every stage of the game. During the testing phase, you discovered that costs are much higher than anticipated, but the query response times are within the SLA. You want to follow Google-recommended practices. You need the database to be performant and highly available while you keep costs low. What should you do?

A. Manually scale down the number of nodes after the peak period has passed.

B. Use interleaving to co-locate parent and child rows.

C. Use the Cloud Spanner query optimizer to determine the most efficient way to execute the SQL query.

D. Use granular instance sizing in Cloud Spanner and Autoscaler.

Correct Answer: D

Granular instance is available in Public Preview. With this feature, you can run workloads on Spanner at as low as 1/10th the cost of regular instances, <https://cloud.google.com/blog/products/databases/get-more-out-of-spanner-with-granularinstance-sizing>



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