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**QUESTION 1**

Your organization has strict policies on tracking rollouts to production and periodically shares this information with external auditors to meet compliance requirements. You need to enable auditing on several Cloud Spanner databases. What should you do?

- A. Use replication to roll out changes to higher environments.
- B. Use backup and restore to roll out changes to higher environments.
- C. Use Liquibase to roll out changes to higher environments.
- D. Manually capture detailed DBA audit logs when changes are rolled out to higher environments.

Correct Answer: B

QUESTION 2

Your organization is running a low-latency reporting application on Microsoft SQL Server. In addition to the database engine, you are using SQL Server Analysis Services (SSAS), SQL Server Reporting Services (SSRS), and SQL Server Integration Services (SSIS) in your on-premises environment. You want to migrate your Microsoft SQL Server database instances to Google Cloud. You need to ensure minimal disruption to the existing architecture during migration. What should you do?

- A. Migrate to Cloud SQL for SQL Server.
- B. Migrate to Cloud SQL for PostgreSQL.
- C. Migrate to Compute Engine.
- D. Migrate to Google Kubernetes Engine (GKE).

Correct Answer: B

QUESTION 3

You work in the logistics department. Your data analysis team needs daily extracts from Cloud SQL for MySQL to train a machine learning model. The model will be used to optimize next-day routes. You need to export the data in CSV format. You want to follow Google-recommended practices. What should you do?

- A. Use Cloud Scheduler to trigger a Cloud Function that will run a `select * from table(s)` query to call the `cloudsql.instances.export` API.
- B. Use Cloud Scheduler to trigger a Cloud Function through Pub/Sub to call the `cloudsql.instances.export` API.
- C. Use Cloud Composer to orchestrate an export by calling the `cloudsql.instances.export` API.
- D. Use Cloud Composer to execute a `select * from table(s)` query and export results.

Correct Answer: A

**QUESTION 4**

You need to migrate existing databases from Microsoft SQL Server 2016 Standard Edition on a single Windows Server 2019 Datacenter Edition to a single Cloud SQL for SQL Server instance. During the discovery phase of your project, you notice that your on-premises server peaks at around 25,000 read IOPS. You need to ensure that your Cloud SQL instance is sized appropriately to maximize read performance. What should you do?

- A. Create a SQL Server 2019 Standard on Standard machine type with 4 vCPUs, 15 GB of RAM, and 800 GB of solid-state drive (SSD).
- B. Create a SQL Server 2019 Standard on High Memory machine type with at least 16 vCPUs, 104 GB of RAM, and 200 GB of SSD.
- C. Create a SQL Server 2019 Standard on High Memory machine type with 16 vCPUs, 104 GB of RAM, and 4 TB of SSD.
- D. Create a SQL Server 2019 Enterprise on High Memory machine type with 16 vCPUs, 104 GB of RAM, and 500 GB of SSD.

Correct Answer: B

QUESTION 5

You are deploying a new Cloud SQL instance on Google Cloud using the Cloud SQL Auth proxy. You have identified snippets of application code that need to access the new Cloud SQL instance. The snippets reside and execute on an application server running on a Compute Engine machine. You want to follow Google-recommended practices to set up Identity and Access Management (IAM) as quickly and securely as possible. What should you do?

- A. For each application code, set up a common shared user account.
- B. For each application code, set up a dedicated user account.
- C. For the application server, set up a service account.
- D. For the application server, set up a common shared user account.

Correct Answer: B

QUESTION 6

Your team is building a new inventory management application that will require read and write database instances in multiple Google Cloud regions around the globe. Your database solution requires 99.99% availability and global transactional consistency. You need a fully managed backend relational database to store inventory changes. What should you do?

- A. Use Bigtable.
- B. Use Firestore.
- C. Use Cloud SQL for MySQL



D. Use Cloud Spanner.

Correct Answer: C

QUESTION 7

Your company uses Bigtable for a user-facing application that displays a low-latency real-time dashboard. You need to recommend the optimal storage type for this read-intensive database. What should you do?

- A. Recommend solid-state drives (SSD).
- B. Recommend splitting the Bigtable instance into two instances in order to load balance the concurrent reads.
- C. Recommend hard disk drives (HDD).
- D. Recommend mixed storage types.

Correct Answer: B

QUESTION 8

Your hotel booking company is expanding into Country A, where personally identifiable information (PII) must comply with regional data residency requirements and audits. You need to isolate customer data in Country A from the rest of the customer data. You want to design a multi-tenancy strategy to efficiently manage costs and operations. What should you do?

- A. Apply a schema data management pattern.
- B. Apply an instance data management pattern.
- C. Apply a table data management pattern.
- D. Apply a database data management pattern.

Correct Answer: B

QUESTION 9

Your company is shutting down their data center and migrating several MySQL and PostgreSQL databases to Google Cloud. Your database operations team is severely constrained by ongoing production releases and the lack of capacity for additional on-premises backups. You want to ensure that the scheduled migrations happen with minimal downtime and that the Google Cloud databases stay in sync with the on-premises data changes until the applications can cut over. What should you do? (Choose two.)

- A. Use Database Migration Service to migrate the databases to Cloud SQL.
 - B. Use a cross-region read replica to migrate the databases to Cloud SQL.
 - C. Use replication from an external server to migrate the databases to Cloud SQL.
 - D. Use an external read replica to migrate the databases to Cloud SQL.
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E. Use a read replica to migrate the databases to Cloud SQL.

Correct Answer: CE

QUESTION 10

You are managing a mission-critical Cloud SQL for PostgreSQL instance. Your application team is running important transactions on the database when another DBA starts an on-demand backup. You want to verify the status of the backup. What should you do?

- A. Check the `cloudsql.googleapis.com/postgres.log` instance log.
- B. Perform the `gcloud sql operations list` command.
- C. Use Cloud Audit Logs to verify the status.
- D. Use the Google Cloud Console.

Correct Answer: C

QUESTION 11

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?

- 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.

Correct Answer: B

QUESTION 12

You are running a mission-critical application on a Cloud SQL for PostgreSQL database with a multi-zonal setup. The primary and read replica instances are in the same region but in different zones. You need to ensure that you split the application load between both instances. What should you do?

- A. Use Cloud Load Balancing for load balancing between the Cloud SQL primary and read replica instances.
- B. Use PgBouncer to set up database connection pooling between the Cloud SQL primary and read replica instances.
- C. Use HTTP(S) Load Balancing for database connection pooling between the Cloud SQL primary and read replica instances.
- D. Use the Cloud SQL Auth proxy for database connection pooling between the Cloud SQL primary and read replica instances.



Correct Answer: B

QUESTION 13

Your company is migrating the existing infrastructure for a highly transactional application to Google Cloud. You have several databases in a MySQL database instance and need to decide how to transfer the data to Cloud SQL. You need to minimize the downtime for the migration of your 500 GB instance. What should you do?

- A. Create a Cloud SQL for MySQL instance for your databases, and configure Datastream to stream your database changes to Cloud SQL. Select the Backfill historical data check box on your stream configuration to initiate Datastream to backfill any data that is out of sync between the source and destination. Delete your stream when all changes are moved to Cloud SQL for MySQL, and update your application to use the new instance.
- B. Create migration job using Database Migration Service. Set the migration job type to Continuous, and allow the databases to complete the full dump phase and start sending data in change data capture (CDC) mode. Wait for the replication delay to minimize, initiate a promotion of the new Cloud SQL instance, and wait for the migration job to complete. Update your application connections to the new instance.
- C. Create migration job using Database Migration Service. Set the migration job type to One-time, and perform this migration during a maintenance window. Stop all write workloads to the source database and initiate the dump. Wait for the dump to be loaded into the Cloud SQL destination database and the destination database to be promoted to the primary database. Update your application connections to the new instance.
- D. Use the mysqldump utility to manually initiate a backup of MySQL during the application maintenance window. Move the files to Cloud Storage, and import each database into your Cloud SQL instance. Continue to dump each database until all the databases are migrated. Update your application connections to the new instance.

Correct Answer: C

QUESTION 14

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: C

QUESTION 15

You work for a financial services company that wants to use fully managed database services. Traffic volume for your consumer services products has increased annually at a constant rate with occasional spikes around holidays. You frequently need to upgrade the capacity of your database. You want to use Cloud Spanner and include an automated



method to increase your hardware capacity to support a higher level of concurrency. What should you do?

- A. Use linear scaling to implement the Autoscaler-based architecture
- B. Use direct scaling to implement the Autoscaler-based architecture.
- C. Upgrade the Cloud Spanner instance on a periodic basis during the scheduled maintenance window.
- D. Set up alerts that are triggered when Cloud Spanner utilization metrics breach the threshold, and then schedule an upgrade during the scheduled maintenance window.

Correct Answer: C

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