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Google Certified Professional Data Engineer Exam Sample Questions (Q66-Q71):

NEW QUESTION # 66

Your company is selecting a system to centralize data ingestion and delivery. You are considering messaging and data integration systems to address the requirements. The key requirements are:

The ability to seek to a particular offset in a topic, possibly back to the start of all data ever captured Support for publish/subscribe semantics on hundreds of topics Retain per-key ordering Which system should you choose?

- **A. Apache Kafka**
- B. Cloud Pub/Sub
- C. Firebase Cloud Messaging
- D. Cloud Storage

Answer: A

NEW QUESTION # 67

You have a query that filters a BigQuery table using a WHERE clause on timestamp and ID columns. By using bq query - -dry_run you learn that the query triggers a full scan of the table, even though the filter on timestamp and ID select a tiny fraction of the overall data. You want to reduce the amount of data scanned by BigQuery with minimal changes to existing SQL queries. What should you do?

- A. Recreate the table with a partitioning column and clustering column.
- B. Use the bq query - -maximum_bytes_billed flag to restrict the number of bytes billed.
- C. Create a separate table for each ID.
- **D. Use the LIMIT keyword to reduce the number of rows returned.**

Answer: D

NEW QUESTION # 68

You need to connect multiple applications with dynamic public IP addresses to a Cloud SQL instance. You configured users with strong passwords and enforced the SSL connection to your Cloud SQL instance. You want to use Cloud SQL public IP and ensure that you have secured connections. What should you do?

- A. Add CIDR 0.0.0.0/0 network to Authorized Network. Use Cloud SQL Auth proxy on all applications.
- **B. Leave the Authorized Network empty. Use Cloud SQL Auth proxy on all applications.**
- C. Add CIDR 0.0.0.0/0 network to Authorized Network. Use Identity and Access Management (IAM) to add users.
- D. Add all application networks to Authorized Network and regularly update them.

Answer: B

Explanation:

To securely connect multiple applications with dynamic public IP addresses to a Cloud SQL instance using public IP, the Cloud SQL Auth proxy is the best solution. This proxy provides secure, authorized connections to Cloud SQL instances without the need to configure authorized networks or deal with IP whitelisting complexities.

* Cloud SQL Auth Proxy:

* The Cloud SQL Auth proxy provides secure, encrypted connections to Cloud SQL.

* It uses IAM permissions and SSL to authenticate and encrypt the connection, ensuring data security in transit.

* By using the proxy, you avoid the need to constantly update authorized networks as the proxy handles dynamic IP addresses seamlessly.

* Authorized Network Configuration:

* Leaving the authorized network empty means no IP addresses are explicitly whitelisted, relying solely on the Auth proxy for secure

connections.

- * This approach simplifies network management and enhances security by not exposing the Cloud SQL instance to public IP ranges.
- * Dynamic IP Handling:
- * Applications with dynamic IP addresses can securely connect through the proxy without the need to modify authorized networks.
- * The proxy authenticates connections using IAM, making it ideal for environments where application IPs change frequently.

Google Data Engineer References:

- * Using Cloud SQL Auth Proxy
- * Cloud SQL Security Overview
- * Setting up the Cloud SQL Auth Proxy

By using the Cloud SQL Auth proxy, you ensure secure, authorized connections for applications with dynamic public IPs without the need for complex network configurations.

NEW QUESTION # 69

You're using Bigtable for a real-time application, and you have a heavy load that is a mix of read and writes. You've recently identified an additional use case and need to perform hourly an analytical job to calculate certain statistics across the whole database. You need to ensure both the reliability of your production application as well as the analytical workload. What should you do?

- A. Export Bigtable dump to GCS and run your analytical job on top of the exported files.
- B. Add a second cluster to an existing instance with a single-cluster routing, use live-traffic app profile for your regular workload and batch-analytics profile for the analytics workload.
- C. Add a second cluster to an existing instance with a multi-cluster routing, use live-traffic app profile for your regular workload and batch-analytics profile for the analytics workload.
- D. Increase the size of your existing cluster twice and execute your analytics workload on your new resized cluster.

Answer: C

Explanation:

<https://cloud.google.com/bigtable/docs/replication-settings#batch-vs-serve>

NEW QUESTION # 70

You are creating a new pipeline in Google Cloud to stream IoT data from Cloud Pub/Sub through Cloud Dataflow to BigQuery. While previewing the data, you notice that roughly 2% of the data appears to be corrupt. You need to modify the Cloud Dataflow pipeline to filter out this corrupt data. What should you do?

- A. Add a Partition transform in Cloud Dataflow to separate valid data from corrupt data.
- B. Add a SideInput that returns a Boolean if the element is corrupt.
- C. Add a GroupByKey transform in Cloud Dataflow to group all of the valid data together and discard the rest.
- D. Add a ParDo transform in Cloud Dataflow to discard corrupt elements.

Answer: D

NEW QUESTION # 71

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