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Google Certified Professional Data Engineer Exam Sample Questions (Q259-Q264):

NEW QUESTION # 259

You migrated your on-premises Apache Hadoop Distributed File System (HDFS) data lake to Cloud Storage. The data scientist team needs to process the data by using Apache Spark and SQL. Security policies need to be enforced at the column level. You need a cost-effective solution that can scale into a data mesh. What should you do?

- A. 1. Define a BigLake table.
2. Create a taxonomy of policy tags in Data Catalog.
3. Add policy tags to columns.
4. Process with the Spark-BigQuery connector or BigQuery SQL.
- B. 1. Apply an Identity and Access Management (IAM) policy at the file level in Cloud Storage
2. Define a BigQuery external table for SQL processing
3. Use Dataproc Spark to process the Cloud Storage files.
- C. 1. Deploy a long-living Dataproc cluster with Apache Hive and Ranger enabled.
2. Configure Ranger for column level security.
3. Process with Dataproc Spark or Hive SQL.
- D. 1. Load the data to BigQuery tables.
2. Create a taxonomy of policy tags in Data Catalog.
3. Add policy tags to columns.
4. Process with the Spark-BigQuery connector or BigQuery SQL.

Answer: B

Explanation:

For automating the CI/CD pipeline of DAGs running in Cloud Composer, the following approach ensures that DAGs are tested and deployed in a streamlined and efficient manner.

Use Cloud Build for Development Instance Testing:

Use Cloud Build to automate the process of copying the DAG code to the Cloud Storage bucket of the development instance. This triggers Cloud Composer to automatically pick up and test the new DAGs in the development environment.

Testing and Validation:

Ensure that the DAGs run successfully in the development environment.

Validate the functionality and correctness of the DAGs before promoting them to production.

Deploy to Production:

If the DAGs pass all tests in the development environment, use Cloud Build to copy the tested DAG code to the Cloud Storage bucket of the production instance.

This ensures that only validated and tested DAGs are deployed to production, maintaining the stability and reliability of the production environment.

Simplicity and Reliability:

This approach leverages Cloud Build's capabilities for automation and integrates seamlessly with Cloud Composer's reliance on Cloud Storage for DAG storage.

By using Cloud Storage for both development and production deployments, the process remains simple and robust.

Google Data Engineer Reference:

Cloud Composer Documentation

Using Cloud Build

Deploying DAGs to Cloud Composer

Automating DAG Deployment with Cloud Build

By implementing this CI/CD pipeline, you ensure that DAGs are thoroughly tested in the development environment before being automatically deployed to the production environment, maintaining high quality and reliability.

NEW QUESTION # 260

Which role must be assigned to a service account used by the virtual machines in a Dataproc cluster so they can execute jobs?

- A. Dataproc Worker
- B. Dataproc Viewer
- C. Dataproc Editor
- D. Dataproc Runner

Answer: A

Explanation:

Service accounts used with Cloud Dataproc must have Dataproc/Dataproc Worker role (or have all the permissions granted by Dataproc Worker role).

NEW QUESTION # 261

You need to choose a database to store time series CPU and memory usage for millions of computers.

You need to store this data in one-second interval samples. Analysts will be performing real-time, ad hoc analytics against the database. You want to avoid being charged for every query executed and ensure that the schema design will allow for future growth of the dataset. Which database and data model should you choose?

- A. Create a wide table in BigQuery, create a column for the sample value at each second, and update the row with the interval for each second
- B. Create a wide table in Cloud Bigtable with a row key that combines the computer identifier with the sample time at each minute, and combine the values for each second as column data.
- C. Create a table in BigQuery, and append the new samples for CPU and memory to the table
- D. Create a narrow table in Cloud Bigtable with a row key that combines the Computer Engine computer identifier with the sample time at each second

Answer: D

Explanation:

<https://cloud.google.com/bigtable/docs/schema-design-time-series>

NEW QUESTION # 262

What is the recommended action to do in order to switch between SSD and HDD storage for your Google Cloud Bigtable instance?

- A. the selection is final and you must resume using the same storage type
- B. export the data from the existing instance and import the data into a new instance
- C. run parallel instances where one is HDD and the other is SDD
- D. create a third instance and sync the data from the two storage types via batch jobs

Answer: B

Explanation:

When you create a Cloud Bigtable instance and cluster, your choice of SSD or HDD storage for the cluster is permanent. You cannot use the Google Cloud Platform Console to change the type of storage that is used for the cluster.

If you need to convert an existing HDD cluster to SSD, or vice-versa, you can export the data from the existing instance and import the data into a new instance. Alternatively, you can write a Cloud Dataflow or Hadoop MapReduce job that copies the data from one instance to another.

NEW QUESTION # 263

Your company's data platform ingests CSV file dumps of booking and user profile data from upstream sources into Cloud Storage. The data analyst team wants to join these datasets on the email field available in both the datasets to perform analysis. However, personally identifiable information (PII) should not be accessible to the analysts. You need to de-identify the email field in both the datasets before loading them into BigQuery for analysts. What should you do?

- A. 1. Create a pipeline to de-identify the email field by using recordTransformations in Cloud DLP with format-preserving encryption with FFX as the de-identification transformation type.2. Load the booking and user profile data into a BigQuery table.
- B. 1. Create a pipeline to de-identify the email field by using recordTransformations in Cloud Data Loss Prevention (Cloud DLP) with masking as the de-identification transformations type.2. Load the booking and user profile data into a BigQuery

table.

- C. 1. Load the CSV files from Cloud Storage into a BigQuery table, and enable dynamic data masking. 2. Create a policy tag with the default masking value as the data masking rule. 3. Assign the policy to the email field in both tables. 4. Assign the Identity and Access Management `bigquerydatapolicy.maskedReader` role for the BigQuery tables to the analysts
- D. 1. Load the CSV files from Cloud Storage into a BigQuery table, and enable dynamic data masking. 2. Create a policy tag with the email mask as the data masking rule. 3. Assign the policy to the email field in both tables. 4. Assign the Identity and Access Management `bigquerydatapolicy.maskedReader` role for the BigQuery tables to the analysts.

Answer: A

Explanation:

Cloud DLP is a service that helps you discover, classify, and protect your sensitive data. It supports various de-identification techniques, such as masking, redaction, tokenization, and encryption. Format-preserving encryption (FPE) with FFX is a technique that encrypts sensitive data while preserving its original format and length. This allows you to join the encrypted data on the same field without revealing the actual values. FPE with FFX also supports partial encryption, which means you can encrypt only a portion of the data, such as the domain name of an email address. By using Cloud DLP to de-identify the email field with FPE with FFX, you can ensure that the analysts can join the booking and user profile data on the email field without accessing the PII. You can create a pipeline to de-identify the email field by using `recordTransformations` in Cloud DLP, which allows you to specify the fields and the de-identification transformations to apply to them.

You can then load the de-identified data into a BigQuery table for analysis. References:

De-identify sensitive data | Cloud Data Loss Prevention Documentation

Format-preserving encryption with FFX | Cloud Data Loss Prevention Documentation De-identify and re-identify data with the Cloud DLP API De-identify data in a pipeline

NEW QUESTION # 264

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