

Test Professional-Data-Engineer Voucher, Most Professional-Data-Engineer Reliable Questions



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To become a certified Google Professional Data Engineer, candidates must pass the Professional-Data-Engineer exam. Professional-Data-Engineer exam consists of multiple-choice and scenario-based questions that test the candidate's knowledge of Google Cloud data processing technologies, data storage solutions, and data analysis tools. Professional-Data-Engineer exam also evaluates the candidate's ability to design and implement data pipelines using Google Cloud services, such as BigQuery, Cloud Dataflow, and Cloud Dataproc.

Google Professional-Data-Engineer Certification Exam is intended for data engineers, data scientists, and other IT professionals who want to demonstrate their proficiency in Google Cloud Platform data engineering technologies. Professional-Data-Engineer exam covers topics such as design and implementation of data processing systems, building and maintaining databases, data analysis and visualization, and machine learning implementation.

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Google Certified Professional Data Engineer Exam Sample Questions (Q234-Q239):

NEW QUESTION # 234

You need to deploy additional dependencies to all of a Cloud Dataproc cluster at startup using an existing initialization action. Company security policies require that Cloud Dataproc nodes do not have access to the Internet so public initialization actions cannot fetch resources. What should you do?

- A. **Copy all dependencies to a Cloud Storage bucket within your VPC security perimeter**
- B. Use Resource Manager to add the service account used by the Cloud Dataproc cluster to the Network User role
- C. Deploy the Cloud SQL Proxy on the Cloud Dataproc master
- D. Use an SSH tunnel to give the Cloud Dataproc cluster access to the Internet

Answer: A

NEW QUESTION # 235

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 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.
- B. 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.
- 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 email mask as the data masking rule.3. Assign the policy to the email field in both tables. A4. 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 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

Answer: B

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 # 236

You have a data pipeline that writes data to Cloud Bigtable using well-designed row keys. You want to monitor your pipeline to determine when to increase the size of your Cloud Bigtable cluster. Which two actions can you take to accomplish this? (Choose two.)

- A. Monitor latency of read operations. Increase the size of the Cloud Bigtable cluster if read operations take longer than 100

ms.

- B. Review Key Visualizer metrics. Increase the size of the Cloud Bigtable cluster when the Read pressure index is above 100.
- C. Monitor storage utilization. Increase the size of the Cloud Bigtable cluster when utilization increases above 70% of max capacity.
- D. Monitor the latency of write operations. Increase the size of the Cloud Bigtable cluster when there is a sustained increase in write latency.
- E. Review Key Visualizer metrics. Increase the size of the Cloud Bigtable cluster when the Write pressure index is above 100.

Answer: B,D

NEW QUESTION # 237

Which of the following is NOT a valid use case to select HDD (hard disk drives) as the storage for Google Cloud Bigtable?

- A. You will not use the data to back a user-facing or latency-sensitive application.
- B. You expect to store at least 10 TB of data.
- C. You will mostly run batch workloads with scans and writes, rather than frequently executing random reads of a small number of rows.
- D. You need to integrate with Google BigQuery.

Answer: D

Explanation:

For example, if you plan to store extensive historical data for a large number of remote-sensing devices and then use the data to generate daily reports, the cost savings for HDD storage may justify the performance tradeoff. On the other hand, if you plan to use the data to display a real-time dashboard, it probably would not make sense to use HDD storage-reads would be much more frequent in this case, and reads are much slower with HDD storage.

Reference: <https://cloud.google.com/bigtable/docs/choosing-ssd-hdd>

NEW QUESTION # 238

Which of the following IAM roles does your Compute Engine account require to be able to run pipeline jobs?

- A. dataflow.developer
- B. dataflow.viewer
- C. dataflow.compute
- D. dataflow.worker

Answer: D

Explanation:

The dataflow.worker role provides the permissions necessary for a Compute Engine service account to execute work units for a Dataflow pipeline

NEW QUESTION # 239

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