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To become a Google Certified Professional Data Engineer, a candidate must pass the certification exam, which costs $200. Professional-Data-Engineer exam is available in English, Japanese, and Spanish and can be taken online or at a testing center. Professional-Data-Engineer exam is valid for two years, after which a candidate must recertify to maintain their certification.

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Achieving the Google Certified Professional Data Engineer certification demonstrates to employers and colleagues that an individual has the knowledge and skills necessary to design and build data processing systems on Google Cloud Platform. Google Certified Professional Data Engineer Exam certification can open up new career opportunities and help individuals advance in their current roles.

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Google Certified Professional Data Engineer Exam Sample Questions (Q329-

Q334):

NEW QUESTION # 329

You operate a logistics company, and you want to improve event delivery reliability for vehicle-based sensors. You operate small data centers around the world to capture these events, but leased lines that provide connectivity from your event collection infrastructure to your event processing infrastructure are unreliable, with unpredictable latency. You want to address this issue in the most cost-effective way. What should you do?

- A. Have the data acquisition devices publish data to Cloud Pub/Sub.
- B. Establish a Cloud Interconnect between all remote data centers and Google.
- C. Deploy small Kafka clusters in your data centers to buffer events.
- D. Write a Cloud Dataflow pipeline that aggregates all data in session windows.

Answer: A

NEW QUESTION # 330

When creating a new Cloud Dataproc cluster with the projects.regions.clusters.create operation, these four values are required: project, region, name, and _____.

- A. label
- B. node
- C. zone
- D. type

Answer: C

Explanation:
At a minimum, you must specify four values when creating a new cluster with the projects.regions.clusters.create operation:
The project in which the cluster will be created
The region to use
The name of the cluster
The zone in which the cluster will be created
You can specify many more details beyond these minimum requirements. For example, you can also specify the number of workers, whether preemptible compute should be used, and the network settings.
Reference: https://cloud.google.com/dataproc/docs/tutorials/python-library- example#create_a_new_cloud_dataproc_cluste

NEW QUESTION # 331

Which of these operations can you perform from the BigQuery Web UI?

- A. Upload a file in SQL format.
- B. Upload multiple files using a wildcard.
- C. Load data with nested and repeated fields.
- D. Upload a 20 MB file.

Answer: C

Explanation:
You can load data with nested and repeated fields using the Web UI.
You cannot use the Web UI to:
- Upload a file greater than 10 MB in size
- Upload multiple files at the same time
- Upload a file in SQL format
All three of the above operations can be performed using the "bq" command.
Reference: https://cloud.google.com/bigquery/loading-data

NEW QUESTION # 332

You are implementing workflow pipeline scheduling using open source-based tools and Google Kubernetes Engine (GKE). You

want to use a Google managed service to simplify and automate the task. You also want to accommodate Shared VPC networking considerations. What should you do?

- A. Use Cloud Composer in a Shared VPC configuration. Place the Cloud Composer resources in the service project.
- B. Use Cloud Composer in a Shared VPC configuration. Place the Cloud Composer resources in the host project.
- C. Use Dataflow for your workflow pipelines. Use shell scripts to schedule workflows.
- D. Use Dataflow for your workflow pipelines. Use Cloud Run triggers for scheduling.

Answer: A

Explanation:
Shared VPC requires that you designate a host project to which networks and subnetworks belong and a service project, which is attached to the host project. When Cloud Composer participates in a Shared VPC, the Cloud Composer environment is in the service project. Reference: https://cloud.google.com/composer/docs/how-to/managing/configuring-shared-vpc

NEW QUESTION # 333
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. 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.
- C. 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.
- D. 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.

Answer: A

Explanation:
The key requirements are:
Data on Cloud Storage (migrated from HDFS).
Processing with Spark and SQL.
Column-level security.
Cost-effective and scalable for a data mesh.
Let's analyze the options:
Option A (Load to BigQuery tables, policy tags, Spark-BQ connector/BQ SQL):
Pros: BigQuery native tables offer excellent performance. Policy tags provide robust column-level security managed centrally in Data Catalog. The Spark-BigQuery connector allows Spark to read from/write to BigQuery. BigQuery SQL is powerful. Scales well.
Cons: "Loading" the data into BigQuery means moving it from Cloud Storage into BigQuery's managed storage. This incurs storage costs in BigQuery and an ETL step. While effective, it might not be the most
"cost-effective" if the goal is to query data in place on Cloud Storage, especially for very large datasets.
Option B (Long-living Dataproc, Hive, Ranger):
Pros: Provides a Hadoop-like environment with Spark, Hive, and Ranger for column-level security.
Cons: "Long-living Dataproc cluster" is generally not the most cost-effective, as you pay for the cluster even when idle. Managing Hive and Ranger adds operational overhead. While scalable, it requires more infrastructure management than serverless options.
Option C (IAM at file level, BQ external table, Dataproc Spark):
Pros: Using Cloud Storage is cost-effective for storage. BigQuery external tables allow SQL access.
Cons: IAM at the file level in Cloud Storage does not provide column-level security. This option fails to meet a critical requirement.
Option D (Define a BigLake table, policy tags, Spark-BQ connector/BQ SQL):
Pros:BigLake Tables: These tables allow you to query data in open formats (like Parquet, ORC) on Cloud Storage as if it were a native BigQuery table, but without ingesting the data into BigQuery's managed storage.
This is highly cost-effective for storage.
Column-Level Security with Policy Tags: BigLake tables integrate with Data Catalog policy tags to enforce fine-grained column-level security on the data residing in Cloud Storage. This is a centralized and robust security model.
Spark and SQL Access: Data scientists can use BigQuery SQL directly on BigLake tables. The Spark- BigQuery connector can also be used to access BigLake tables, enabling Spark processing.
Cost-Effective & Scalable Data Mesh: This approach leverages the cost-effectiveness of Cloud Storage, the serverless querying

power and security features of BigQuery/Data Catalog, and provides a clear path to building a data mesh by allowing different domains to manage their data in Cloud Storage while exposing it securely through BigLake.

Cons: Performance for BigLake tables might be slightly different than BigQuery native storage for some workloads, but it's designed for high performance on open formats.

Why D is superior for this scenario:

BigLake tables (Option D) directly address the need to keep data in Cloud Storage (cost-effective for a data lake) while providing strong, centrally managed column-level security via policy tags and enabling both SQL (BigQuery) and Spark (via Spark-BigQuery connector) access. This is more aligned with modern data lakehouse and data mesh architectures than loading everything into native BigQuery storage (Option A) if the data is already in open formats on Cloud Storage, or managing a full Hadoop stack on Dataproc (Option B).

Reference:

Google Cloud Documentation: BigLake > Overview. "BigLake lets you unify your data warehouses and data lakes. BigLake tables provide fine-grained access control for tables based on data in Cloud Storage, while preserving access through other Google Cloud services like BigQuery, GoogleSQL, Spark, Trino, and TensorFlow." Google Cloud Documentation: BigLake > Introduction to BigLake tables. "BigLake tables bring BigQuery features to your data in Cloud Storage. You can query external data with fine-grained security (including row- level and column-level security) without needing to move or duplicate data." Google Cloud Documentation: Data Catalog > Overview of policy tags. "You can use policy tags to enforce column-level access control for BigQuery tables, including BigLake tables." Google Cloud Blog: "Announcing BigLake - Unifying data lakes and warehouses" (and similar articles) highlight how BigLake enables querying data in place on Cloud Storage with BigQuery's governance features.

NEW QUESTION # 334

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