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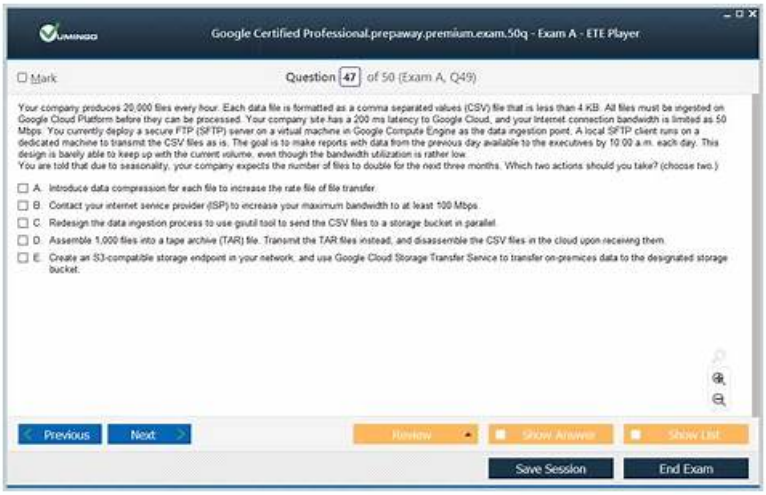

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Google Professional-Data-Engineer Certification is a highly respected and in-demand certification for data professionals. Google Certified Professional Data Engineer Exam certification is designed for individuals who possess the knowledge and skills to design, build, maintain, and troubleshoot data processing systems with a particular emphasis on the Google Cloud Platform. Google Certified Professional Data Engineer Exam certification is offered by Google and is recognized globally as a valuable credential for professionals in the data engineering field.

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Google Professional-Data-Engineer (Google Certified Professional Data Engineer) certification exam is designed to test the skills and knowledge of data professionals who specialize in designing and building data processing systems on Google Cloud Platform. Google Certified Professional Data Engineer Exam certification is ideal for data engineers, developers, architects, and other IT professionals who want to validate their skills and expertise in managing and processing data on Google Cloud Platform.

Introduction

Data engineers are responsible for finding trends in data sets and developing algorithms to help make raw data more useful to the enterprise. This IT role requires a significant set of technical skills, including a deep knowledge of SQL database design and multiple programming languages They collect, transform, and visualize data. The Data Engineer designs, builds, maintains, and troubleshoots

data processing systems with a particular emphasis on the security, reliability, fault-tolerance,scalability, fidelity, and efficiency of such systems.

Google Certified Professional Data Engineer Exam Sample Questions (Q345-Q350):

NEW QUESTION # 345
MJTelco Case Study
Company Overview
MJTelco is a startup that plans to build networks in rapidly growing, underserved markets around the world. The company has patents for innovative optical communications hardware. Based on these patents, they can create many reliable, high-speed backbone links with inexpensive hardware.
Company Background
Founded by experienced telecom executives, MJTelco uses technologies originally developed to overcome communications challenges in space. Fundamental to their operation, they need to create a distributed data infrastructure that drives real-time analysis and incorporates machine learning to continuously optimize their topologies. Because their hardware is inexpensive, they plan to overdeploy the network allowing them to account for the impact of dynamic regional politics on location availability and cost.
Their management and operations teams are situated all around the globe creating many-to-many relationship between data consumers and provides in their system. After careful consideration, they decided public cloud is the perfect environment to support their needs.
Solution Concept
MJTelco is running a successful proof-of-concept (PoC) project in its labs. They have two primary needs:
Scale and harden their PoC to support significantly more data flows generated when they ramp to more
than 50,000 installations.
Refine their machine-learning cycles to verify and improve the dynamic models they use to control
topology definition.
MJTelco will also use three separate operating environments - development/test, staging, and production
- to meet the needs of running experiments, deploying new features, and serving production customers.
Business Requirements
Scale up their production environment with minimal cost, instantiating resources when and where
needed in an unpredictable, distributed telecom user community.
Ensure security of their proprietary data to protect their leading-edge machine learning and analysis.
Provide reliable and timely access to data for analysis from distributed research workers
Maintain isolated environments that support rapid iteration of their machine-learning models without
affecting their customers.
Technical Requirements
Ensure secure and efficient transport and storage of telemetry data
Rapidly scale instances to support between 10,000 and 100,000 data providers with multiple flows
each.
Allow analysis and presentation against data tables tracking up to 2 years of data storing approximately
100m records/day
Support rapid iteration of monitoring infrastructure focused on awareness of data pipeline problems
both in telemetry flows and in production learning cycles.
CEO Statement
Our business model relies on our patents, analytics and dynamic machine learning. Our inexpensive hardware is organized to be highly reliable, which gives us cost advantages. We need to quickly stabilize our large distributed data pipelines to meet our reliability and capacity commitments.
CTO Statement
Our public cloud services must operate as advertised. We need resources that scale and keep our data secure. We also need environments in which our data scientists can carefully study and quickly adapt our models. Because we rely on automation to process our data, we also need our development and test environments to work as we iterate.
CFO Statement
The project is too large for us to maintain the hardware and software required for the data and analysis.
Also, we cannot afford to staff an operations team to monitor so many data feeds, so we will rely on automation and infrastructure. Google Cloud's machine learning will allow our quantitative researchers to work on our high-value problems instead of problems with our data pipelines.
MJTelco's Google Cloud Dataflow pipeline is now ready to start receiving data from the 50,000 installations. You want to allow Cloud Dataflow to scale its compute power up as required. Which Cloud Dataflow pipeline configuration setting should you update?

- A. The maximum number of workers
- B. The zone
- C. The disk size per worker
- D. The number of workers

Answer: B

NEW QUESTION # 346
Which of these rules apply when you add preemptible workers to a Dataproc cluster (select 2 answers)?

- A. If a preemptible worker is reclaimed, then a replacement worker must be added manually.
- B. A Dataproc cluster cannot have only preemptible workers.
- C. Preemptible workers cannot use persistent disk.
- D. Preemptible workers cannot store data.

Answer: B,D

Explanation:
The following rules will apply when you use preemptible workers with a Cloud Dataproc cluster:
. Processing only-Since preemptibles can be reclaimed at any time, preemptible workers do not store data. Preemptibles added to a Cloud Dataproc cluster only function as processing nodes.
. No preemptible-only clusters-To ensure clusters do not lose all workers, Cloud Dataproc cannot create preemptible-only clusters.
. Persistent disk size-As a default, all preemptible workers are created with the smaller of 100GB or the primary worker boot disk size. This disk space is used for local caching of data and is not available through HDFS.
The managed group automatically re-adds workers lost due to reclamation as capacity permits.

NEW QUESTION # 347
When you design a Google Cloud Bigtable schema it is recommended that you _____.

- A. Avoid schema designs that are based on NoSQL concepts
- B. Create schema designs that require atomicity across rows
- C. Create schema designs that are based on a relational database design
- D. Avoid schema designs that require atomicity across rows

Answer: D

Explanation:
All operations are atomic at the row level. For example, if you update two rows in a table, it's possible that one row will be updated successfully and the other update will fail. Avoid schema designs that require atomicity across rows.
Reference: https://cloud.google.com/bigtable/docs/schema-design#row-keys

NEW QUESTION # 348
You are designing a data mesh on Google Cloud by using Dataplex to manage data in BigQuery and Cloud Storage. You want to simplify data asset permissions. You are creating a customer virtual lake with two user groups:
* Data engineers, which require lull data lake access
* Analytic users, which require access to curated data
You need to assign access rights to these two groups. What should you do?

- A. 1. Grant the bigquery.dataViewer role on BigQuery datasets and the storage.objectviewer role on Cloud Storage buckets to data engineers.
  2. Grant the bigquery.dataOwner role on BigQuery datasets and the storage.objectEditor role on Cloud Storage buckets to analytic users.
- B. 1. Grant the dataplex.dataOwner role to the data engineer group on the customer data lake.
  2. Grant the dataplex.dataReader role to the analytic user group on the customer curated zone.
- C. 1. Grant the bigquery.dataownex role on BigQuery datasets and the storage.objectcreator role on Cloud Storage buckets to data engineers.
  2. Grant the bigquery.dataViewer role on BigQuery datasets and the storage.objectViewer role on Cloud Storage buckets to analytic users.

- D. 1. Grant the dataplex.dataReader role to the data engineer group on the customer data lake.
  2. Grant the dataplex.dataOwner to the analytic user group on the customer curated zone.

Answer: B

Explanation:
When designing a data mesh on Google Cloud using Dataplex to manage data in BigQuery and Cloud Storage, it is essential to simplify data asset permissions while ensuring that each user group has the appropriate access levels. Here's why option A is the best choice:
Data Engineer Group:
Data engineers require full access to the data lake to manage and operate data assets comprehensively. Granting the dataplex.dataOwner role to the data engineer group on the customer data lake ensures they have the necessary permissions to create, modify, and delete data assets within the lake.
Analytic User Group:
Analytic users need access to curated data but do not require full control over all data assets. Granting the dataplex.dataReader role to the analytic user group on the customer curated zone provides read-only access to the curated data, enabling them to analyze the data without the ability to modify or delete it.
Steps to Implement:
Grant Data Engineer Permissions:
Assign the dataplex.dataOwner role to the data engineer group on the customer data lake to ensure full access and management capabilities.
Grant Analytic User Permissions:
Assign the dataplex.dataReader role to the analytic user group on the customer curated zone to provide read-only access to curated data.
Reference:
Dataplex IAM Roles and Permissions
Managing Access in Dataplex

NEW QUESTION # 349
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 Dataflow for your workflow pipelines. Use Cloud Run triggers for scheduling.
- B. Use Cloud Composer in a Shared VPC configuration. Place the Cloud Composer resources in the service project.
- C. Use Cloud Composer in a Shared VPC configuration. Place the Cloud Composer resources in the host project.
- D. Use Dataflow for your workflow pipelines. Use shell scripts to schedule workflows.

Answer: B

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 # 350
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