


Professional-Data-Engineer Test Questions Pdf | Unlimited Professional-Data-Engineer Exam Practice



COHESITY DATA PROTECTION ASSOCIATE EXAM 2025 ACTUAL EXAM | QUESTIONS AND VERIFIED ANSWERS | LATEST FOR FINAL | COMPLETE RATIONALES | GUARANTEED PASS | GRADED A+

Stop the stress and ace your Cohesity Data Protection Associate exam on the first try!

This is the ultimate, all-in-one study guide containing **every single question and verified answers** you need to master the 2025 exam. We've compiled the complete set of actual exam content so you can study efficiently and with confidence.

Question 1
What is the primary purpose of Cohesity File and Object Services?
A) To provide a scalable and secure platform for file and object storage
B) To act as a traditional SAN storage array
C) To replace public cloud storage completely
D) To provide real-time streaming services
CORRECT ANSWER ✓ ✓ To provide a scalable and secure platform for file and object storage
RATIONALE: Cohesity File and Object Services offers scalable, software-defined storage designed for enterprise workloads, enabling efficient management of file and object data with strong security and scalability.

Question 2
Which protocols are supported by Cohesity File Services for file access?
A) SMB and NFS
B) FTP and HTTP
C) iSCSI and Fibre Channel
D) SFTP and SCP
CORRECT ANSWER ✓ ✓ SMB and NFS

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To become a Google Certified Professional Data Engineer, candidates must have a strong foundation in data engineering concepts and technologies. They must also possess excellent problem-solving skills and have a deep understanding of data analysis and interpretation. Candidates can prepare for the exam by taking online courses, attending training programs, and practicing using real-world data scenarios.

Google Certified Professional Data Engineer Exam Sample Questions (Q97-Q102):

NEW QUESTION # 97

You are selecting services to write and transform JSON messages from Cloud Pub/Sub to BigQuery for a data pipeline on Google Cloud. You want to minimize service costs. You also want to monitor and accommodate input data volume that will vary in size with minimal manual intervention. What should you do?

- A. Use Cloud Dataproc to run your transformations. Monitor CPU utilization for the cluster. Resize the number of worker nodes in your cluster via the command line.
- B. Use Cloud Dataflow to run your transformations. Monitor the job system lag with Stackdriver. Use the default autoscaling setting for worker instances.
- C. Use Cloud Dataflow to run your transformations. Monitor the total execution time for a sampling of jobs. Configure the job to use non-default Compute Engine machine types when needed.
- **D. Use Cloud Dataproc to run your transformations. Use the `diagnose` command to generate an operational output archive. Locate the bottleneck and adjust cluster resources.**

Answer: D

Explanation:
Explanation

NEW QUESTION # 98

Which of the following is not true about Dataflow pipelines?

- A. Pipelines represent a data processing job
- B. Pipelines are a set of operations
- C. Pipelines represent a directed graph of steps
- **D. Pipelines can share data between instances**

Answer: D

Explanation:

The data and transforms in a pipeline are unique to, and owned by, that pipeline. While your program can create multiple pipelines, pipelines cannot share data or transforms Reference: <https://cloud.google.com/dataflow/model/pipelines>

NEW QUESTION # 99

You are administering shared BigQuery datasets that contain views used by multiple teams in your organization. The marketing team is concerned about the variability of their monthly BigQuery analytics spend using the on-demand billing model. You need to help the marketing team establish a consistent BigQuery analytics spend each month. What should you do?

- A. Create a BigQuery Enterprise reservation with a baseline of 250 slots and autoscaling set to 500 for the marketing team, and bill them back accordingly.
- **B. Create a BigQuery reservation with a baseline of 500 slots with no autoscaling for the marketing team, and bill them back accordingly.**
- C. Establish a BigQuery quota for the marketing team, and limit the maximum number of bytes scanned each day.
- D. Create a BigQuery Standard pay-as-you-go reservation with a baseline of 0 slots and autoscaling set to 500 for the marketing team, and bill them back accordingly.

Answer: B

Explanation:

To help the marketing team establish a consistent BigQuery analytics spend each month, you can use BigQuery reservations to allocate dedicated slots for their queries. This provides predictable costs by reserving a fixed amount of compute resources.

BigQuery Reservations:

BigQuery Reservations allow you to purchase dedicated query processing capacity in the form of slots.

By reserving slots, you can control costs and ensure that the marketing team has the necessary resources for their queries without unexpected increases in spending.

Baseline Slots:

Setting a baseline of 500 slots without autoscaling ensures a consistent allocation of resources.

This provides a predictable monthly cost, as the marketing team will be billed for the reserved slots regardless of actual usage.

Billing Back:

The marketing team's usage can be billed back based on the fixed reservation cost, ensuring budget predictability.

This approach avoids the variability associated with on-demand billing, where costs can fluctuate based on query volume and complexity.

No Autoscaling:

By not enabling autoscaling, you prevent additional costs from being incurred due to temporary increases in query demand.

This fixed reservation ensures that the marketing team only uses the allocated 500 slots, maintaining a consistent monthly spend.

Google Data Engineer Reference:

BigQuery Reservations Documentation

BigQuery Slot Reservations

Managing BigQuery Costs

Using a fixed reservation of 500 slots provides the marketing team with predictable costs and the necessary resources for their queries without unexpected billing variability.

NEW QUESTION # 100

A web server sends click events to a Pub/Sub topic as messages. The web server includes an event Timestamp attribute in the messages, which is the time when the click occurred. You have a Dataflow streaming job that reads from this Pub/Sub topic through a subscription, applies some transformations, and writes the result to another Pub/Sub topic for use by the advertising department.

The advertising department needs to receive each message within 30 seconds of the corresponding click occurrence, but they report receiving the messages late. Your Dataflow job's system lag is about 5 seconds, and the data freshness is about 40 seconds.

Inspecting a few messages show no more than 1 second lag between their event Timestamp and publish Time. What is the problem and what should you do?

- A. The advertising department is causing delays when consuming the messages. Work with the advertising department to fix this.
- B. Messages in your Dataflow job are taking more than 30 seconds to process. Optimize your job or increase the number of workers to fix this.
- C. The web server is not pushing messages fast enough to Pub/Sub. Work with the web server team to fix this.
- **D. Messages in your Dataflow job are processed in less than 30 seconds, but your job cannot keep up with the backlog in the Pub/Sub subscription. Optimize your job or increase the number of workers to fix this.**

Answer: D

Explanation:

To ensure that the advertising department receives messages within 30 seconds of the click occurrence, and given the current system lag and data freshness metrics, the issue likely lies in the processing capacity of the Dataflow job. Here's why option B is the best choice:

System Lag and Data Freshness:

The system lag of 5 seconds indicates that Dataflow itself is processing messages relatively quickly.

However, the data freshness of 40 seconds suggests a significant delay before processing begins, indicating a backlog.

Backlog in Pub/Sub Subscription:

A backlog occurs when the rate of incoming messages exceeds the rate at which the Dataflow job can process them, causing delays.

Optimizing the Dataflow Job:

To handle the incoming message rate, the Dataflow job needs to be optimized or scaled up by increasing the number of workers, ensuring it can keep up with the message inflow.

Steps to Implement:

Analyze the Dataflow Job:

Inspect the Dataflow job metrics to identify bottlenecks and inefficiencies.

Optimize Processing Logic:

Optimize the transformations and operations within the Dataflow pipeline to improve processing efficiency.

Increase Number of Workers:

Scale the Dataflow job by increasing the number of workers to handle the higher load, reducing the backlog.

Reference:

NEW QUESTION # 101

What are all of the BigQuery operations that Google charges for?

- A. Storage, queries, and loading data from a file
- **B. Storage, queries, and streaming inserts**
- C. Queries and streaming inserts
- D. Storage, queries, and exporting data

Answer: B

Explanation:

Google charges for storage, queries, and streaming inserts. Loading data from a file and exporting data are free operations.

NEW QUESTION # 102

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