EXAM ASSOCIATE CLOUD ENGINEER TOPIC 1 QUESTION 213 DISCUSSION

Actual exam question from Google's Associate Cloud Engineer
Question #: 213
Topic #: 1
[All Associate Cloud Engineer Questions]

You are building a data lake on Google Cloud for your Internet of Things (IoT) application. The IoT application has millions of sensors that are constantly streaming structured and unstructured data to your backend in the cloud. You want to build a highly available and resilient architecture based on Google-recommended practices. What should you do?

A. Stream data to Pub/Sub, and use Dataflow to send data to Cloud Storage.

B. Stream data to Pub/Sub, and use Storage Transfer Service to send data to BigQuery.

C. Stream data to Dataflow, and use Dataprep by Trifacta to send data to Bigtable.

D. Stream data to Dataflow, and use Storage Transfer Service to send data to BigQuery.

Show Suggested Answer

by shreykul at *July 24, 2023, 3:02 a.m.*

Comments

shreykul Highly Voted 1 year, 3 months ago

Selected Answer: A

A. Streaming data to Pub/Sub allows you to decouple the ingestion of data from the processing and storage, providing a scalable and reliable message queue that can handle the high volume of data coming from millions of sensors.

Using Dataflow to consume data from Pub/Sub and send it to Cloud Storage allows for real-time data processing and storage. Dataflow is a fully managed service for processing data in real-time or batch mode, making it an ideal choice for handling the constant stream of data from IoT sensors.

Storing data in Cloud Storage offers high durability and availability, providing a robust foundation for building a data lake. Cloud Storage is a scalable object storage service that can handle large volumes of structured and unstructured data, making it well-suited for the IoT application's data requirements.

upvoted 11 times

VijKall Highly Voted 11 months, 3 weeks ago

Selected Answer: A

Pub/Sub , Dataflow and BigTable would have been idle solution, but since Cloud Storage is the only option with that combo, I will go with A.

upvoted 5 times

nmnm22 11 months, 3 weeks ago

ideal*

upvoted 2 times

[Removed] Most Recent 11 months, 3 weeks ago

Accordingly to:
https://cloud.google.com/learn/what-is-a-data-lake
"Related products and services
Google Cloud offers a suite of autoscaling services that enable you to build a data lake that integrates with your existing applications, skills, and IT investments. This includes Dataflow and Cloud Data Fusion for data ingestion, [[[Cloud Storage]]] for storage, and Dataproc and BigQuery for data and analytics processing. "
Google topics only mentions Cloud Storage for such system, so A IS CORRECT.

upvoted 1 times

joao_01 1 year, 1 month ago

Selected Answer: A

Its A, for sure.

upvoted 1 times

Captain1212 1 year, 1 month ago

A is the correct answer a there is both unstuctured and strucutder data

upvoted 3 times

3arle 1 year, 2 months ago

Selected Answer: A

according to https://cloud.google.com/architecture/optimized-large-scale-analytics-ingestion

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