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Exam Professional Data Engineer All Questions

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EXAM PROFESSIONAL DATA ENGINEER TOPIC 1 QUESTION 134 DISCUSSION

Actual exam question from Google's Professional Data Engineer

Question #: 134

Topic #: 1

[All Professional Data Engineer Questions]

You are building an application to share financial market data with consumers, who will receive data feeds. Data is collected from the markets in real time.

Consumers will receive the data in the following ways:

- ⇒ Real-time event stream
- ANSI SQL access to real-time stream and historical data
- Batch historical exports

Which solution should you use?

- A. Cloud Dataflow, Cloud SQL, Cloud Spanner
- B. Cloud Pub/Sub, Cloud Storage, BigQuery
- C. Cloud Dataproc, Cloud Dataflow, BigQuery
- D. Cloud Pub/Sub, Cloud Dataproc, Cloud SQL

Show Suggested Answer

by [deleted] at March 22, 2020, 10:43 a.m.

Comments

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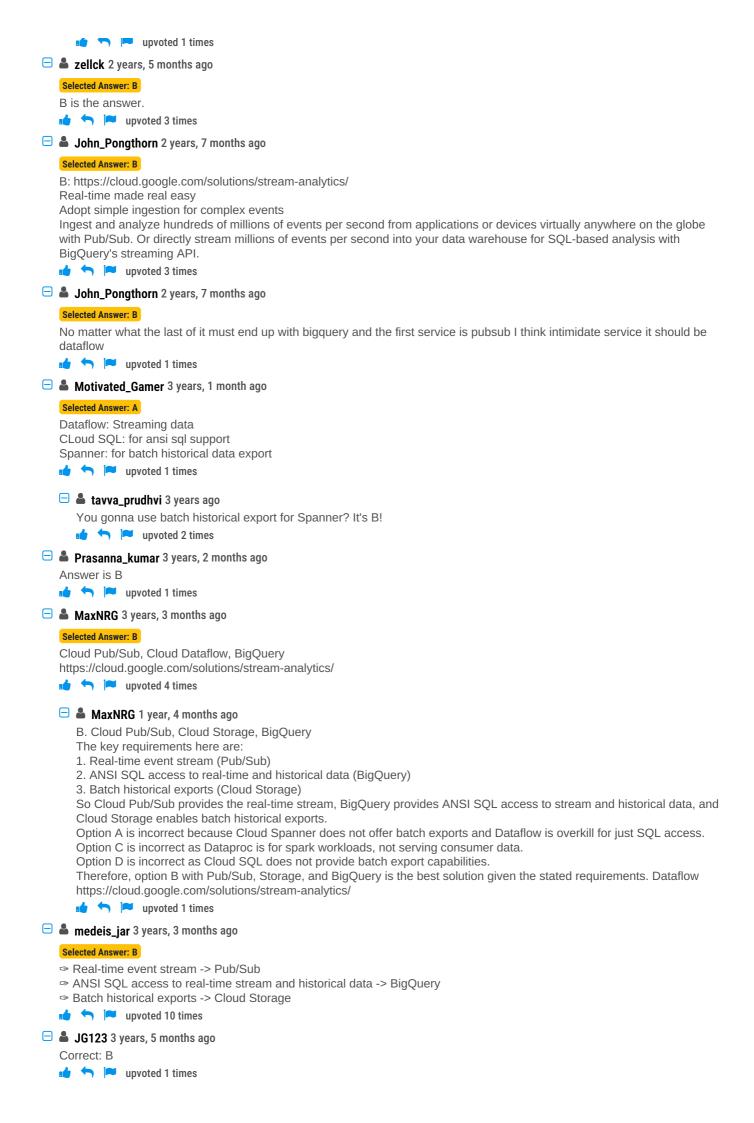
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	[Removed] Highly Voted of 5 years, 1 month ago
[itche_scratche Highly Voted 4 years, 7 months ago on, not ideal but only option that work. You need pubsub, then a processing layer (dataflow or dataproc), then storage (some sql database). upvoted 12 times
e	■ seiyassa 4 years, 4 months ago I think pubsub doesn't have good connection to dataproc, so D is not the answer upvoted 3 times
	 ➡ jkhong 2 years, 4 months ago As of Dec 2022,there is the PubSub Lite connector to Dataproc ➡ □ upvoted 2 times
6	■ jkhong 2 years, 4 months ago We can have our pubsub topics to have BigQuery subscriptions, where data is automatically streamed into our BQ tables. Autoscaling is already handled automatically so this renders Dataflow and Dataproc pretty irrelevant for our usecase □ □ upvoted 1 times
	□
V	SamuelTsch Most Recent © 6 months, 1 week ago Selected Answer: D why B? The main goal of the question is data storage. Thus BigQuery is not neccessary for this situation. Option D from my point of view cover the whole requirements. Pub/Sub for streaming data, dataproc for data processing, SQL for storage.
	barnac1es 1 year, 7 months ago 3. Cloud Pub/Sub, Cloud Storage, BigQuery.
F	Here's how this solution aligns with your requirements: Real-time Event Stream: Cloud Pub/Sub is a managed messaging service that can handle real-time event streams efficiently. You can use Pub/Sub to ingest and publish real-time market data to consumers. ANSI SQL Access: BigQuery supports ANSI SQL queries, making it suitable for both real-time and historical data analysis. You can stream data into BigQuery tables from Pub/Sub and provide ANSI SQL access to consumers. Batch Historical Exports: Cloud Storage can be used for batch historical exports. You can export data from BigQuery to Cloud Storage in batch, making it available for consumers to download.
	vaga1 1 year, 11 months ago
	Selected Answer: B was in doubt as I did not know that BQ handles real-time access to data without dataflow underneath.
	https://cloud.google.com/bigquery/docs/write- api#:~:text=You%20can%20use%20the%20Storage,in%20a%20single%20atomic%20operation.
	midgoo 2 years, 1 month ago
E F	Selected Answer: B Event Stream -> PubSub PubSub has direct Write to BigQuery Historical Exports to GCS
	AzureDP900 2 years, 4 months ago

 $https:/\!/cloud.google.com/solutions/stream-analytics/\\$

B. Cloud Pub/Sub, Cloud Storage, BigQuery

AzureDP900 2 years, 4 months ago

upvoted 3 times



AdrianMonter26 3 years, 5 months ago

I think it must be D because you need Pub/Sub for streaming data, Dataflow or DataProc to get the data from Pub/Sub and store it in a database and finally the Cloud SQL database to store the data.

A and C cannot be because it is missing something for streaming data

B It can't be because you need something to pass the data from Pub/Sub to Cloud storage

upvoted 3 times

😑 🏜 sumanshu 3 years, 10 months ago

Vote for B

upvoted 3 times

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