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# **Exam Professional Machine Learning Engineer All Questions**

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## **EXAM PROFESSIONAL MACHINE LEARNING ENGINEER TOPIC 1 QUESTION 113 DISCUSSI...**

Actual exam question from Google's Professional Machine Learning Engineer

Question #: 113

Topic #: 1

[All Professional Machine Learning Engineer Questions]

You need to analyze user activity data from your company's mobile applications. Your team will use BigQuery for data analysis, transformation, and experimentation with ML algorithms. You need to ensure real-time ingestion of the user activity data into BigQuery. What should you do?

- A. Configure Pub/Sub to stream the data into BigQuery.
- B. Run an Apache Spark streaming job on Dataproc to ingest the data into BigQuery.
- C. Run a Dataflow streaming job to ingest the data into BigQuery.
- D. Configure Pub/Sub and a Dataflow streaming job to ingest the data into BigQuery,

**Show Suggested Answer** 

by Amymy9418 at Dec. 18, 2022, 2:27 a.m.

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□ Sphemol Highly Voted 1 1 year, 10 months ago

# Selected Answer: A Previously Google pattern was Pub/Sub -> Dataflow -> BQ but now it looks as there is new Pub/Sub -> BQ https://cloud.google.com/blog/products/data-analytics/pub-sub-launches-direct-path-to-bigquery-for-streaming-analytics upvoted 19 times ■ TNT87 1 year, 7 months ago New pub sub??? heheheh upvoted 1 times ■ TNT87 1 year, 7 months ago https://cloud.google.com/blog/products/data-analytics/pub-sub-launches-direct-path-to-bigguery-for-streaming-analytics You should have said pub sub has been upgrade to directly stream to bigguery templates...not new pub sub upvoted 2 times ■ baimus Most Recent ② 1 month, 1 week ago Selected Answer: A The question specifies that transformation occurs in Bigguery. This means the new direct pub/sub to bigguery streaming path is correct. upvoted 1 times Prakzz 3 months, 3 weeks ago Selected Answer: D Need PubSub and Dataflow both for this upvoted 1 times ludovikush 7 months, 3 weeks ago **Selected Answer: D** Werner123 i agree upvoted 1 times E Werner123 7 months, 3 weeks ago Selected Answer: D User data would most likely include PII, for that case it is still recommended to use Dataflow since you need to remove/anonymise sensitive data. upvoted 2 times pico 11 months, 1 week ago I would have added "with / without data transformation" to the question to choose the right answer between A or D upvoted 1 times 🖃 🏜 andresvelasco 1 year, 1 month ago Selected Answer: A I had my doubts between A and D. But since the transformation will occur in bigguery I think Pubsub suffices. upvoted 3 times 🖯 🚨 M25 1 year, 5 months ago Selected Answer: D Agree with TNT87. From the same link: "For Pub/Sub messages where advanced preload transformations or data processing before landing data in BigQuery (such as masking PII) is necessary, we still recommend going through Dataflow." It's "analyze user activity data", not merely streaming IoT into BigQuery so that concerns like privacy are per se n/a. One can deal with PII after landing in BigQuery as well, but apparently that's not what they recommend. upvoted 3 times ■ PHD CHENG 1 year, 6 months ago Selected Answer: D Pub/Sub -> DataFlow -> BigQuery

upvoted 2 times

■ TNT87 1 year, 7 months ago

#### Selected Answer: D

D. Configure Pub/Sub and a Dataflow streaming job to ingest the data into BigQuery.

This solution involves using Google Cloud Pub/Sub as the messaging service to receive the data from the mobile application, and then using Google Cloud Dataflow to transform and load the data into BigQuery in real time. Pub/Sub is a scalable and reliable messaging service that can handle high-volume real-time data streaming, while Dataflow provides a unified programming model to develop and run data processing pipelines. This solution is suitable for handling large volumes of user

activity data from mobile applications and ingesting it into  $\mathsf{BigQuery}$  in real-time for analysis and  $\mathsf{ML}$  experimentation.

upvoted 2 times

□ 🏜 TNT87 1 year, 7 months ago

Starting today, you no longer have to write or run your own pipelines for data ingestion from Pub/Sub into BigQuery. We are introducing a new type of Pub/Sub subscription called a "BigQuery subscription" that writes directly from Cloud Pub/Sub to BigQuery. This new extract, load, and transform (ELT) path will be able to simplify your event-driven architecture. For Pub/Sub messages where advanced preload transformations or data processing before landing data in BigQuery (such as masking PII) is necessary, we still recommend going through Dataflow

upvoted 1 times

🗖 🏜 hiromi 1 year, 10 months ago

Selected Answer: A

Α

agree with pshemol

upvoted 3 times

mymy9418 1 year, 10 months ago

Selected Answer: D

need dataflow

upvoted 2 times

mil\_spyro 1 year, 10 months ago

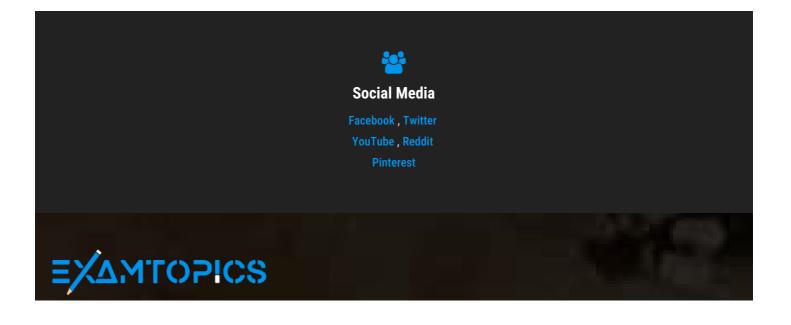
transformation will be handled in BQ hence I think A

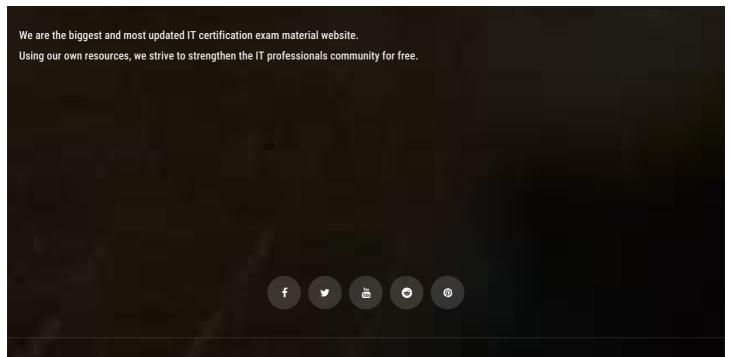
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mymy9418 1 year, 9 months ago agree.

upvoted 1 times

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