← **Google Discussions**

Exam Professional Data Engineer All Questions

View all questions & answers for the Professional Data Engineer exam

Go to Exam

📄 **EXAM PROFESSIONAL DATA ENGINEER TOPIC 1 QUESTION 255 DISCUSSION**

Actual exam question from Google's Professional Data Engineer

Question #: 255

Topic #: 1

[All Professional Data Engineer Questions]

You have an Oracle database deployed in a VM as part of a Virtual Private Cloud (VPC) network. You want to replicate and continuously synchronize 50 tables to BigQuery. You want to minimize the need to manage infrastructure. What should you do?

A. Deploy Apache Kafka in the same VPC network, use Kafka Connect Oracle Change Data Capture (CDC), and Dataflow to stream the Kafka topic to BigQuery.

B. Create a Pub/Sub subscription to write to BigQuery directly. Deploy the Debezium Oracle connector to capture changes in the Oracle database, and sink to the Pub/Sub topic.

C. Deploy Apache Kafka in the same VPC network, use Kafka Connect Oracle change data capture (CDC), and the Kafka Connect Google BigQuery Sink Connector.

D. Create a Datastream service from Oracle to BigQuery, use a private connectivity configuration to the same VPC network, and a connection profile to BigQuery.

Show Suggested Answer

by 👤 scaenruy at *Jan. 3, 2024, 4:38 p.m.*

Comments

Type your comment...

Submit

⊟ 👤 **raaad** `Highly Voted 👍` 10 months ago

`Selected Answer: D`

- Datastream is a serverless and easy-to-use change data capture (CDC) and replication service.
- You would create a Datastream service that sources from your Oracle database and targets BigQuery, with private connectivity configuration to the same VPC.
- This option is designed to minimize the need to manage infrastructure and is a fully managed service.

👍 ↩ ⚑ upvoted 11 times

⊟ 👤 **JyoGCP** `Most Recent ⊘` 8 months, 2 weeks ago

`Selected Answer: D`

D. Datastream

👍 ↩ ⚑ upvoted 2 times

⊟ 👤 **scaenruy** 10 months ago

`Selected Answer: D`

D. Create a Datastream service from Oracle to BigQuery, use a private connectivity configuration to the same VPC network, and a connection profile to BigQuery.

👍 ↩ ⚑ upvoted 2 times