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## Exam Professional Data Engineer All Questions

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### EXAM PROFESSIONAL DATA ENGINEER TOPIC 1 QUESTION 294 DISCUSSION

Actual exam question from Google's Professional Data Engineer

Question #: 294

Topic #: 1

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You work for a large ecommerce company. You are using Pub/Sub to ingest the clickstream data to Google Cloud for analytics. You observe that when a new subscriber connects to an existing topic to analyze data, they are unable to subscribe to older data. For an upcoming yearly sale event in two months, you need a solution that, once implemented, will enable any new subscriber to read the last 30 days of data. What should you do?

- A. Create a new topic, and publish the last 30 days of data each time a new subscriber connects to an existing topic.
- B. Set the topic retention policy to 30 days.
- C. Set the subscriber retention policy to 30 days.
- D. Ask the source system to re-push the data to Pub/Sub, and subscribe to it.

Show Suggested Answer

by [scaenruy](#) at Jan. 4, 2024, 11:45 a.m.

### Comments

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🗨️ [raaad](#) Highly Voted 1 year, 3 months ago

**Selected Answer: B**

- Topic Retention Policy: This policy determines how long messages are retained by Pub/Sub after they are published, even if they have not been acknowledged (consumed) by any subscriber.

- 30 Days Retention: By setting the retention policy of the topic to 30 days, all messages published to this topic will be available for consumption for 30 days. This means any new subscriber connecting to the topic can access and analyze data from the past 30 days.

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🗨️ **hussain.sain** **Most Recent** 4 months, 1 week ago

**Selected Answer: B**

B is correct.

By setting the topic retention policy to 30 days, any new subscriber will be able to access the data for the past 30 days, regardless of when they connect. This solution is both cost-effective and efficient for your use case.

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🗨️ **romain773** 6 months, 1 week ago

Option B is wrong i think (topic retention) because it only makes unconsumed messages available for 30 days. I propose option A

Option A (creating a new topic and republishing the last 30 days of data for each new subscriber) is actually a better solution to ensure that new subscribers have access to the full 30-day history.

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🗨️ **romain773** 6 months, 1 week ago

Option B is wrong (topic retention) because it only makes unconsumed messages available for 30 days.

Option A (creating a new topic and republishing the last 30 days of data for each new subscriber) is actually a better solution to ensure that new subscribers have access to the full 30-day history.

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🗨️ **joao\_01** 1 year ago

Its B. It could be C as well because subscription has message retention. However, in the subscription there is a maximum value for it: 7 days.

Link: <https://cloud.google.com/pubsub/docs/subscription-properties>

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🗨️ **joao\_01** 1 year ago

In a topic the maximum value is 31 days.

Link: <https://cloud.google.com/pubsub/docs/topic-properties>

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🗨️ **Matt\_108** 1 year, 3 months ago

**Selected Answer: B**

Definitely B

👍 ↩ 🚩 upvoted 2 times

🗨️ **Sofia98** 1 year, 3 months ago

**Selected Answer: B**

<https://cloud.google.com/blog/products/data-analytics/pubsub-gains-topic-retention-feature>

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🗨️ **scaenrui** 1 year, 4 months ago

**Selected Answer: B**

B. Set the topic retention policy to 30 days.

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