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Exam Professional Data Engineer All Questions

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📄 EXAM PROFESSIONAL DATA ENGINEER TOPIC 1 QUESTION 194 DISCUSSION

Actual exam question from Google's Professional Data Engineer

Question #: 194

Topic #: 1

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An online brokerage company requires a high volume trade processing architecture. You need to create a secure queuing system that triggers jobs. The jobs will run in Google Cloud and call the company's Python API to execute trades. You need to efficiently implement a solution. What should you do?

- A. Use a Pub/Sub push subscription to trigger a Cloud Function to pass the data to the Python API.
- B. Write an application hosted on a Compute Engine instance that makes a push subscription to the Pub/Sub topic.
- C. Write an application that makes a queue in a NoSQL database.
- D. Use Cloud Composer to subscribe to a Pub/Sub topic and call the Python API.

Show Suggested Answer

by [PhuocT](#) at Sept. 2, 2022, 7:58 p.m.

Comments

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🗨️ [lucaluca1982](#) Highly Voted 2 years, 1 month ago

A and D are both good. I go for A because we have high volume and easy to scale and optimize cost

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upvoted 0 times

kajitsu Most Recent 10 months, 1 week ago

Selected Answer: D

D is the answer.

upvoted 2 times

nadavw 8 months, 1 week ago

There is no need for a composer to call a Python API only - it's an overkill.

upvoted 2 times

squishy_fishy 1 year, 6 months ago

Answer is D, at work we use solution A for low volume of Pub/Sub messages and Cloud function, and using D Composer for high volume Pub/Sub messages.

upvoted 3 times

musumusu 2 years, 2 months ago

Answer A:

assume, Company wants to buy immediately in same second if stock goes down or up.

Somehow, it is connected to PubSub as SINK connector, then immediately there is PUSH to subscriber (cloud function) that is connected to their python API (internal application) that makes the purchase.

upvoted 4 times

AzureDP900 2 years, 4 months ago

A. Use a Pub/Sub push subscription to trigger a Cloud Function to pass the data to the Python API.

upvoted 1 times

zelick 2 years, 5 months ago

Selected Answer: A

A is the answer.

upvoted 3 times

GCPCloudArchitectUser 2 years, 5 months ago

Selected Answer: A

Because trading platform requires securely transmission to queuing

If you use cloud compose then we need some other job to trigger composer ... would that be cloud composer api or cloud function ...

upvoted 4 times

TNT87 2 years, 7 months ago

<https://cloud.google.com/functions/docs/calling/pubsub>

upvoted 1 times

TNT87 2 years, 8 months ago

Selected Answer: A

Ans A

<https://cloud.google.com/functions/docs/calling/pubsub#deployment>

upvoted 4 times

YorelNation 2 years, 8 months ago

Selected Answer: A

A because D is stupidly high latency

upvoted 3 times

nwk 2 years, 8 months ago

Vote A, can't see the need for composer

upvoted 1 times

soichirokawa 2 years, 8 months ago

A might be enough. Cloud composer will be an overkill

upvoted 3 times

AWSandeep 2 years, 8 months ago

A. Use a Pub/Sub push subscription to trigger a Cloud Function to pass the data to the Python API.

upvoted 4 times

ducc 2 years, 8 months ago

Selected Answer: D

D is a more recommend way by Google, IMO.

upvoted 1 times

  **squishy_fishy** 1 year, 6 months ago

I agree, at work use solution A for low volume of Pub/Sub messages and function, and using Composer for high volume Pub/Sub messages.

   upvoted 2 times

  **PhuocT** 2 years, 8 months ago

A. more sense to me.

   upvoted 1 times

  **ducc** 2 years, 8 months ago

Composer support exception and retry for complex pipeline.
D might be correct

   upvoted 2 times



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