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Exam Professional Machine Learning Engineer All Questions

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EXAM PROFESSIONAL MACHINE LEARNING ENGINEER TOPIC 1 QUESTION 41 DISCUSSIO..

Actual exam question from Google's Professional Machine Learning Engineer

Question #: 41

Topic #: 1

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Your team is building an application for a global bank that will be used by millions of customers. You built a forecasting model that predicts customers' account balances 3 days in the future. Your team will use the results in a new feature that will notify users when their account balance is likely to drop below \$25. How should you serve your predictions?

- A. 1. Create a Pub/Sub topic for each user. 2. Deploy a Cloud Function that sends a notification when your model predicts that a user's account balance will drop below the \$25 threshold.
- B. 1. Create a Pub/Sub topic for each user. 2. Deploy an application on the App Engine standard environment that sends a notification when your model predicts that a user's account balance will drop below the \$25 threshold.
- C. 1. Build a notification system on Firebase. 2. Register each user with a user ID on the Firebase Cloud Messaging server, which sends a notification when the average of all account balance predictions drops below the \$25 threshold.
- D. 1. Build a notification system on Firebase. 2. Register each user with a user ID on the Firebase Cloud Messaging server, which sends a notification when your model predicts that a user's account balance will drop below the \$25 threshold.

Show Suggested Answer

by [salsabilsf](#) at June 9, 2021, 12:23 p.m.

Comments

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  **salsabilsf** Highly Voted  3 years, 5 months ago

Should be D !

creating a Pub/Sub topic for each user is overkill

   upvoted 19 times

  **Y2Data** 3 years, 1 month ago

Yes, create a topic is overkill but not a NOTIFICATION SYSTEM. it's totally normal.

Seriously, the step two involves "REGISTER EACH USER", how is this better than create a topic????




should be A and it's so obvious!

   upvoted 3 times

  **q4exam** 3 years, 1 month ago

I think A is straight forward answer but in real life, customer also consider cost, so practically, app engine will be picked in this case..... because of the large user base

   upvoted 3 times

  **SlipperySlope** Highly Voted  2 years, 8 months ago

Selected Answer: D

D is correct. Firebase is designed for exactly this sort of scenario. Also, it would not be possible to create millions of pubsub topics due to GCP quotas

<https://cloud.google.com/pubsub/quotas#quotas>

<https://firebase.google.com/docs/cloud-messaging>

   upvoted 9 times

  **PhilipKoku** Most Recent  5 months ago

Selected Answer: D

D) Firebase

   upvoted 1 times

  **fragkris** 11 months ago

Selected Answer: D

D is correct. Firebase is used for applications.

   upvoted 1 times

  **harithacML** 1 year, 3 months ago

Selected Answer: A

simple answer , use tools most mentioned during training . , cloud functions

   upvoted 1 times

  **Kowalski** 1 year, 2 months ago

Pub/Sub has a limit of 10,000 topics only and can't be increased https://cloud.google.com/pubsub/quotas#resource_limits.

   upvoted 3 times

  **M25** 1 year, 6 months ago

Selected Answer: D

Went with D

   upvoted 1 times

  **SergioRubiano** 1 year, 7 months ago

Selected Answer: D

"Create a Pub/Sub topic for each user" xD

   upvoted 2 times

  **Mohamed_Mossad** 2 years, 4 months ago

Selected Answer: D

"Create a Pub/Sub topic for each user" this is crazy , we can not imagine a system with millions of pub/sub topics , so A,B wrong

C also wrong


   upvoted 3 times

  **mmona19** 2 years, 6 months ago

Selected Answer: D

D- is more automated compared to A. A is overkill



   upvoted 1 times

  **Vidyasagar** 2 years, 9 months ago

Selected Answer: D

I think, D is the best answer



   upvoted 3 times

  **fdmenendez** 2 years, 9 months ago

Project limit is 10,000 topics, you could have multiple projects but that does not scale well. so D.

https://cloud.google.com/pubsub/quotas#resource_limits

   upvoted 4 times

  **NamitSehgal** 2 years, 10 months ago

D looks more relevant

Notification messages: Simply display a message content, which is handled by the FCM SDK. Data Messages: Display a message with some set interactions

   upvoted 3 times

  **Danny2021** 2 years, 12 months ago

A doesn't work. There is a quota limit on the number of pub/sub topics you can create, also one Cloud function cannot subscribe to millions of topics. A doesn't scale at all.

   upvoted 3 times

  **Danny2021** 2 years, 12 months ago

Answer is D. FCM is designed for this type of notification sent to mobile and desktop apps.

   upvoted 4 times

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