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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

[All Professional Machine Learning Engineer Questions]

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 A salsabilsf at June 9, 2021, 12:23 p.m.

Comments

Type your comment...

Submit alsabilsf Highly Voted of 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 1 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 ② 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.

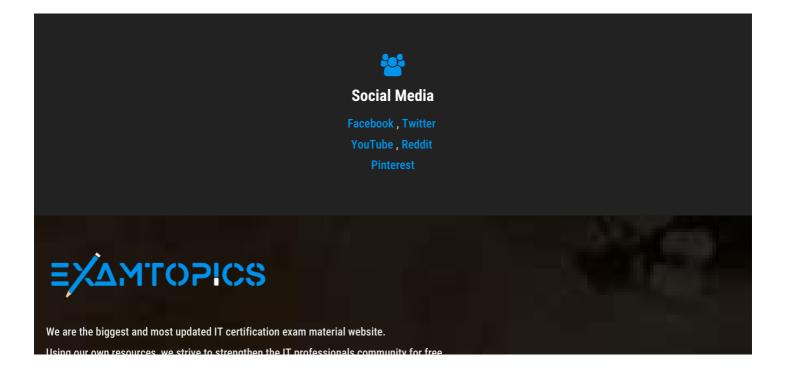
upvoted 3 times

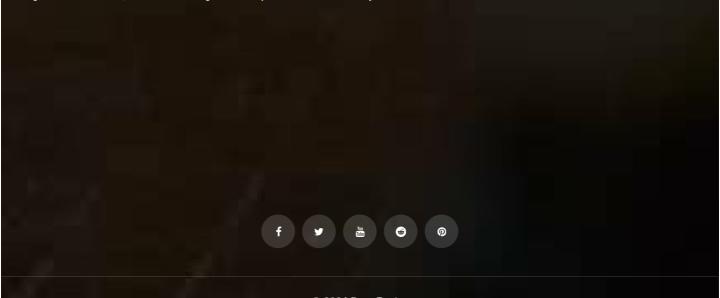
□ **a** Danny2021 2 years, 12 months ago

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

upvoted 4 times

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