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EXAM ASSOCIATE CLOUD ENGINEER TOPIC 1 QUESTION 139 DISCUSSION

Actual exam question from Google's Associate Cloud Engineer

Question #: 139

Topic #: 1

[All Associate Cloud Engineer Questions]

The core business of your company is to rent out construction equipment at large scale. All the equipment that is being rented out has been equipped with multiple sensors that send event information every few seconds. These signals can vary from engine status, distance traveled, fuel level, and more. Customers are billed based on the consumption monitored by these sensors. You expect high throughput `" up to thousands of events per hour per device `" and need to retrieve consistent data based on the time of the event. Storing and retrieving individual signals should be atomic. What should you do?

- A. Create a file in Cloud Storage per device and append new data to that file.

- B. Create a file in Cloud Filestore per device and append new data to that file.

- C. Ingest the data into Datastore. Store data in an entity group based on the device.

- D. Ingest the data into Cloud Bigtable. Create a row key based on the event timestamp.

Show Suggested Answer

by ?filco72 at *Aug. 11, 2020, 2:14 p.m.*

Comments

Type your comment...

hiteshrup `Highly Voted` 4 years, 1 month ago

Answer: D

Keyword need to look for
- "High Throughput",
- "Consistent",
- "Property based data insert/fetch like ngine status, distance traveled, fuel level, and more." which can be designed in column,
- "Large Scale Customer Base + Each Customer has multiple sensor which send event in seconds" This will go for pera bytes situation,
- Export data based on the time of the event.
- Atomic

o BigTable will fit all requirement.
o DataStore is not fully Atomic
o CloudStorage is not a option where we can export data based on time of event. We need another solution to do that
o FireStore can be used with MobileSDK.

So go with Option D: Big Table

upvoted 48 times

[Removed] 4 years, 1 month ago

Its File store not firestore. But still, the argument is correct here as file store will not be automatic like cloud store that no SQL.

If it would be Firestore I would have gone with it, then big data for throughout v/s cost.

upvoted 4 times

Hjameel `Highly Voted` 4 years, 2 months ago

D is the best answer , Cloud Bigtable

upvoted 8 times

har_riy 3 years, 8 months ago

Simple analogy.
Information every few seconds --> Time Series --> Big Table

upvoted 6 times

SHAAHIBHUSHANAWS `Most Recent` 10 months ago

Selected Answer: D

https://cloud.google.com/bigtable/docs/overview

upvoted 1 times

Linhtinh603 10 months, 3 weeks ago

Answer D is the best for high throughput and IoT, but I concern about creating a row key based on the event timestamp, will it be leading a hotspots issue?

upvoted 2 times

Captain1212 1 year, 1 month ago

Selected Answer: D

D is the right answer, as its can help with Automatically

upvoted 1 times

Tosssha 1 year, 8 months ago

ReadModifyWriteRow requests are atomic:
https://cloud.google.com/bigtable/docs/writes

upvoted 1 times

xaqanik 1 year, 8 months ago

it say any type of information. it means there can be an image file for instance. so, Bigtable is the best fit for this scenario

upvoted 1 times

alex000 1 year, 9 months ago

Selected Answer: C

Answer: C
key work: atomic transaction
https://cloud.google.com/datastore/docs/concepts/overview

upvoted 2 times

upvoted 2 times

[Removed] 1 year, 6 months ago

high throughput == Bigtable, hence the answer is D

upvoted 1 times

Cornholio_LMC 2 years ago

had this question today

upvoted 5 times

tomis2 2 years, 3 months ago

Selected Answer: D

Timeseries + IoT = Bigtable

upvoted 4 times

AzureDP900 2 years, 4 months ago

This is related to IoT , it is no sql means BigTable. D is right

upvoted 2 times

pfabio 2 years, 5 months ago

Selected Answer: D

D - Ideal for use cases such as personalization, ad tech, fintech, digital media, and IoT
https://cloud.google.com/bigtable

upvoted 3 times

JelloMan 2 years, 5 months ago

Selected Answer: D

Big table for the exact reasons as @hitrshrup mentioned. Time related data flowing in and out will point you directly to BigTable without reading anything else

upvoted 1 times

wael_tn 2 years, 6 months ago

Selected Answer: D

When we want to store data based on imestamp => Cloud Bigtable

upvoted 1 times

Akash7 2 years, 6 months ago

Answer is D, large streaming data = bigtable

upvoted 1 times

zaxma 2 years, 6 months ago

Selected Answer: C

I vote c with DataStore (maybe even better with firestore includs pubsub ability)
Looks like the internet agrees with me.

upvoted 2 times

alaahakim 2 years, 11 months ago

Answer: D

upvoted 2 times

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