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## Exam Associate Cloud Engineer All Questions

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### EXAM ASSOCIATE CLOUD ENGINEER TOPIC 1 QUESTION 264 DISCUSSION

Actual exam question from Google's Associate Cloud Engineer

Question #: 264

Topic #: 1

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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 files in Cloud Storage as data comes in.
- B. Create a file in Filestore per device, and append new data to that file.
- C. Ingest the data into Cloud SQL. Use multiple read replicas to match the throughput.
- D. Ingest the data into Bigtable. Create a row key based on the event timestamp.

[Show Suggested Answer](#)

by [?shiwobah](#) at Dec. 30, 2023, 6:59 a.m.

### Comments

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? ? denno22 1 week, 3 days ago

Selected Answer: D

<https://cloud.google.com/bigtable/docs/overview#what-its-good-for>

? ? ? upvoted 1 times

? ? TanTran04 7 months ago

Selected Answer: D

I saw this Q from somewhere before :3

? ? ? upvoted 1 times

? ? sinh 9 months, 1 week ago

This is the same question as No. 139.

? ? ? upvoted 3 times

? ? Cynthia2023 9 months, 3 weeks ago

Selected Answer: D

it asks to retrieve consistent data based on the time of the event. D is the only option matching.

? ? ? upvoted 2 times

? ? apb98 9 months, 3 weeks ago

Selected Answer: D

D. Explanation:

- Bigtable is a highly scalable, NoSQL database designed for high throughput and low-latency applications, making it suitable for scenarios with high ingest rates and rapid data retrieval.
- Creating a row key based on the event timestamp would facilitate efficient retrieval of time-based data, ensuring consistency and atomicity for individual signals.
- Bigtable's design allows for fast access to data using row keys, providing optimal performance when retrieving specific signals or events based on timestamps.
- It also offers the scalability needed for handling thousands of events per hour per device.

? ? ? upvoted 2 times

? ? apb98 9 months, 3 weeks ago

Options A, B, and C might not efficiently handle the high throughput and atomic retrieval requirements:

- Cloud Storage (Option A) might not offer the necessary atomicity for individual signal retrieval.
- Filestore (Option B) could struggle with scaling and might not provide the atomic access needed for individual signal retrieval.
- Cloud SQL (Option C) could face challenges in scaling to handle the high throughput effectively and might not match the required performance and atomicity for individual signal retrieval compared to Bigtable.

? ? ? upvoted 2 times

? ? KelvinToo 9 months, 3 weeks ago

Selected Answer: D

ChatGPT says the answer is D.

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? ? shiowbah 9 months, 3 weeks ago

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

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