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Exam Associate Cloud Engineer All Questions

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EXAM ASSOCIATE CLOUD ENGINEER TOPIC 1 QUESTION 188 DISCUSSION

Actual exam question from Google's Associate Cloud Engineer

Question #: 188

Topic #: 1

[\[All Associate Cloud Engineer Questions\]](#)

Your company has an internal application for managing transactional orders. The application is used exclusively by employees in a single physical location. The application requires strong consistency, fast queries, and ACID guarantees for multi-table transactional updates. The first version of the application is implemented in PostgreSQL, and you want to deploy it to the cloud with minimal code changes. Which database is most appropriate for this application?

- A. BigQuery
- B. Cloud SQL
- C. Cloud Spanner
- D. Cloud Datastore

Show Suggested Answer

by [PAUGURU](#) at April 25, 2022, 5:49 p.m.

Comments

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? ? **peugeotdude** Highly Voted ? 2 years, 5 months ago

Read the question :

The application is used exclusively by employees in a single physical location.

? ? ? upvoted 18 times

? ? **theBestStudent** 2 years ago

Correct. That is the key thing. I have no idea why some people ended up thinking cloud spanner is better. Definitely is alternative A.

? ? ? upvoted 4 times

? ? **theBestStudent** 2 years ago

Sorry I meant B, I had a typo.

? ? ? upvoted 7 times

? ? **PAUGURU** Highly Voted ? 2 years, 6 months ago

Selected Answer: B

B -> minimal code changes

? ? ? upvoted 14 times

? ? **cheeseburger12388** 2 years, 5 months ago

Cloud SQL for PostgreSQL is a fully-managed database service that helps you set up, maintain, manage, and administer your PostgreSQL relational databases on Google Cloud Platform.

<https://cloud.google.com/sql/docs/postgres>

? ? ? upvoted 6 times

? ? **denno22** Most Recent ? 1 week, 4 days ago

Selected Answer: B

B

? ? ? upvoted 1 times

? ? **Timfdklfajlksdjlakf** 1 month, 3 weeks ago

Selected Answer: B

Read the question :

The application is used exclusively by employees in a single physical location.

? ? ? upvoted 1 times

? ? **ezzar** 12 months ago

Selected Answer: B

Cloud spanner does everyting cloud SQL already does. + It offers globality which we don't need and horizontal scaling that is mentionned nowhere

? ? ? upvoted 5 times

? ? **Dino0411** 1 year, 2 months ago

Selected Answer: C

C. Select Cloud Spanner.

Cloud Spanner offers strong consistency, fast queries, and importantly, ACID guarantees for updates in multi-table transactions.

Cloud Spanner is well suited for large transactional databases that require horizontal scaling and offers relational database semantics.

Even if the first version was PostgreSQL, Cloud Spanner is the best choice for this kind of application with strict requirements for ACID transactions.

Cloud SQL is also a relational database service, and while some database engines offer ACID transactions, it is not designed like Cloud Spanner for the strict requirements of multi-table transactional updates.

Reference link: Google Cloud - Cloud Spanner: <https://cloud.google.com/spanner>

Reference link: Google Cloud - ACID Transactions in Cloud Spanner: <https://cloud.google.com/spanner/docs/transactions>

? ? ? upvoted 1 times

? ? **Mo73w** 1 year, 5 months ago

Selected Answer: B

the best choice for this application is Cloud SQL for PostgreSQL. It offers the required strong consistency, fast queries, and ACID guarantees for multi-table transactional updates. It is also a good choice for applications that are implemented in PostgreSQL and that you want to deploy to the cloud with minimal code changes.

? ? ? upvoted 2 times

? ? **N_A** 1 year, 5 months ago

Selected Answer: B

B. instead of C. because it's use in a single physical location and is compatible with PostgreSQL.

? ? ? upvoted 2 times

? ? **dobberzoon** 1 year, 6 months ago

B makes sense.

? ? ? upvoted 1 times

? ? **ashtonez** 1 year, 7 months ago

Selected Answer: B

Its B because of single location, usually cloud sql is for non global or/and HA sql ddbb, spanner is for global sql ddbb

? ? ? upvoted 1 times

? ? **JC0926** 1 year, 8 months ago

Selected Answer: B

key: single physical location

? ? ? upvoted 1 times

? ? **Superflip314** 1 year, 8 months ago

The answer is B.

One of the major advantages of Spanner is that the data is replicated over the Globe, since this data will only be accessed at one location Cloud SQL will be sufficient.

? ? ? upvoted 1 times

? ? **Nazz1977** 1 year, 8 months ago

Selected Answer: B

Not only Cloud Spanner has the ACID guarantees. SQL and others can be.....now I go to B (I have changed my vote)

? ? ? upvoted 1 times

? ? **Di4sa** 1 year, 8 months ago

Selected Answer: C

C is the right answer

Only Cloud Spanner has the ACID guarantees and String consistency as mentioned in the question, for those who are saying B because of minimal changes with PostgreSQL check all the feature of CloudSpanner with below link

<https://cloud.google.com/spanner#all-features>

<https://cloud.google.com/spanner/docs/postgresql-interface>

? ? ? upvoted 2 times

? ? **Sammydp202020** 1 year, 8 months ago

Selected Answer: C

Reference: <https://cloud.google.com/blog/topics/developers-practitioners/your-google-cloud-database-options-explained>

? ? ? upvoted 1 times

? ? **Nazz1977** 1 year, 9 months ago

Selected Answer: C

Only Cloud Spanner has the ACID guarantees.....I go to C

? ? ? upvoted 1 times

? ? **FeaRoX** 1 year, 8 months ago

no, not only spanner has acid. ACID is characteristic of basically any RDBMS, including postgres or mysql.

? ? ? upvoted 4 times

? ? **Nazz1977** 1 year, 8 months ago

You are right my friend. I have changed my vote afte your answer. Thanks alot. Now it is B.

? ? ? upvoted 1 times

? ? **alex000** 1 year, 9 months ago

Selected Answer: B

Read the test:

- from a single phisical location

- with minimal changes: onpremise Postgres -> Cloud SQL (Postgres)

? ? ? upvoted 2 times

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