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Exam Professional Cloud Security Engineer All Questions

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📄 EXAM PROFESSIONAL CLOUD SECURITY ENGINEER TOPIC 1 QUESTION 46 DISCUSSION

Actual exam question from Google's Professional Cloud Security Engineer

Question #: 46

Topic #: 1

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A company is deploying their application on Google Cloud Platform. Company policy requires long-term data to be stored using a solution that can automatically replicate data over at least two geographic places.

Which Storage solution are they allowed to use?

- A. Cloud Bigtable
- B. Cloud BigQuery
- C. Compute Engine SSD Disk
- D. Compute Engine Persistent Disk

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by [mozammil89](#) at March 19, 2020, 9:36 p.m.

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🗨️ [ronron89](#) [Highly Voted](#) 👍 4 years, 7 months ago

<https://cloud.google.com/bigquery#:~:text=BigQuery%20transparently%20and%20automatically%20provides,charge%20and%20no%20additional%20setup.&text=BigQuery%20also%20provides%20ODBC%20and.interact%20with%20its%20powerful%20e>

Answer is B.

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BigQuery automatically stores copies of your data in two different Google Cloud zones within a single region in the selected

BigQuery automatically stores copies of your data in two different Google Cloud zones within a single region in the selected location.



<https://cloud.google.com/bigquery/docs/locations>

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  **adb4007** 1 year, 7 months ago

In my opinion the key word is "automatic" because BigQuery and BigTable are by default store on one zone for a piece of data (no replication) With BigTable replication is automatic : <https://cloud.google.com/bigtable/docs/replication-overview> and copy dataset on Bigquery is not automatic <https://cloud.google.com/bigquery/docs/managing-datasets#copy-datasets> I go to A

   upvoted 1 times

  **uiuiui** 1 year, 8 months ago

Selected Answer: D

this is geographic, not region, then the correct ans is D

   upvoted 1 times

  **civilizador** 1 year, 12 months ago

Answer is A - Cloud Bigtable.

Cloud Bigtable - Replication: This page provides a detailed overview of how Cloud Bigtable uses replication to increase the availability and durability of your data.

Cloud BigQuery: From the BigQuery product description, you can see that it is mainly focused on analyzing data and does not mention geographic replication of data as a feature.

Compute Engine Disks: The documentation for Compute Engine Disks explains that they are zonal resources, meaning they are replicated within a single zone, but not across multiple zones or regions.

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  **megalcio** 2 years ago

Selected Answer: A

Correct one is A, as BigQuery does not provide replication but multi location storage which is different

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  **Ishu_awsguy** 2 years, 1 month ago

I am drifting towards D

Regional persistent disk are safe from zonal failures.

The question mentions different geo places (not regions) .

So if zone separation is done in 1 google region and we use regional persistent disk , the data will be safe from failure.

Also why would someone move their DR to BQ ? persistent disk make more sense to me

   upvoted 1 times

  **Ishu_awsguy** 2 years, 1 month ago

Point not to be confused ,

Even with BQ multi region , data s stores in different ones in 1 region not different geographic regions.

The question asks " different geographic places " which means essentially separate zone storage will work.

hence answer is B (Big query) either single region or multi region .

Both suffice

   upvoted 1 times

  **Ishu_awsguy** 2 years, 1 month ago

--- Typo correction ---

Point not to be confused ,



Even with BQ multi region , data is stored in different zones in 1 region & not different geographic regions.

The question asks " different geographic places " which means essentially separate zone storage will work.

hence answer is B (Big query) either single region or multi region .

Both suffice

   upvoted 1 times



  **deony** 2 years, 2 months ago

I think answer is B

First of reason is long-term data solution, it's suitable for Cloud Storage and BigQuery

Second is that BigQuery dataset is placed to multi-region that means that two or more regions.

   upvoted 1 times

  **Ric350** 2 years, 3 months ago

The answer is definitely A. Here's why: <https://cloud.google.com/bigtable/docs/replication-overview#how-it-works>

Replication for Cloud Bigtable lets you increase the availability and durability of your data by copying it across multiple regions or multiple zones within the same region. You can also isolate workloads by routing different types of requests to different clusters.

BQ does not do cross-region replication. The blue highlighted note in the two links below clearly says the following:
"Selecting a multi-region location does NOT provide cross-region replication NOR regional redundancy. Data will be stored in a single region within the geographic location."

https://cloud.google.com/bigquery/docs/reliability-disaster#availability_and_durability

<https://cloud.google.com/bigquery/docs/locations#multi-regions>

👍 ↩ 🚩 upvoted 4 times

🗄️ 👤 **sameer2803** 2 years, 5 months ago

Answer is A.

the below statement is from the google cloud documentation. <https://cloud.google.com/bigquery/docs/reliability-disaster>
BigQuery does not automatically provide a backup or replica of your data in another geographic region

👍 ↩ 🚩 upvoted 3 times

🗄️ 👤 **AwesomeGCP** 2 years, 9 months ago

Selected Answer: B

B. Cloud BigQuery

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🗄️ 👤 **giovy_82** 2 years, 11 months ago

Selected Answer: B

I was about to select D, BUT:

- the question says "long term data" -> which makes me think about BQ
- the replication of persistent disk is between different ZONES, but the question says "different geo location" -> which means different regions (if you look at the zone distribution, different zones in same region are located in the same datacenter)

but I still have doubt since the application data are not supposed to be stored in BQ , unless it is for analytics and so on.
GCS would have been the best choice, but in absence of this, probably B is the 1st choice.

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🗄️ 👤 **Table2022** 2 years, 9 months ago

Thank God we have you giovy_82, very good explanation.

👍 ↩ 🚩 upvoted 2 times

🗄️ 👤 **piyush_1982** 3 years ago

Selected Answer: A

https://cloud.google.com/bigquery/docs/availability#availability_and_durability

As per the link above BigQuery does not automatically provide a backup or replica of your data in another geographic region. It only stores copies of data in two different Google Cloud zones within the selected location.

Reading through the link <https://cloud.google.com/bigtable/docs/replication-overview>

It states that the Bigtable replicates any changes to your data automatically within a region or multi-region.

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