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EXAM ASSOCIATE CLOUD ENGINEER TOPIC 1 QUESTION 184 DISCUSSION

Actual exam question from Google's Associate Cloud Engineer
Question #: 184
Topic #: 1
[All Associate Cloud Engineer Questions]

You need to configure optimal data storage for files stored in Cloud Storage for minimal cost. The files are used in a mission-critical analytics pipeline that is used continually. The users are in Boston, MA (United States). What should you do?

A. Configure regional storage for the region closest to the users. Configure a Nearline storage class.

B. Configure regional storage for the region closest to the users. Configure a Standard storage class.

C. Configure dual-regional storage for the dual region closest to the users. Configure a Nearline storage class.

D. Configure dual-regional storage for the dual region closest to the users. Configure a Standard storage class.

Show Suggested Answer

by PAUGURU at *April 26, 2022, 3:47 p.m.*

Comments

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akshaychavan7 Highly Voted 2 years, 5 months ago

Selected Answer: D

Mission critical is the keyword here which specifies that we need to have a multi-regional backup of the data to survive any regional failures.
So option D is the correct choice here.

upvoted 34 times

ryumada 2 years, 2 months ago

At the first point in this documentation says that dual-regional storage is used for business continuity and disaster recovery. Disaster can affect to a regional architecture. I think it's make sense to use dual-regional storage for this case. Also, dual-regional storage is cheaper than multi-regional.

https://cloud.google.com/storage/docs/dual-regions#use-dual-region-storage

upvoted 2 times

mav3r1ck 2 years, 2 months ago

Keywords: minimal cost and mission-critical
Looks like people are just looking to be on the cost side. You need to meet both.

In this case, it needs to be "dual-region". This is much cheaper than storage in "multi-region" which is obviously not in the choices.

upvoted 4 times

Aninina 1 year, 11 months ago

Dual region is expensive than multi-region. (Also mentioned in the documentation: https://cloud.google.com/storage/docs/locations)
When we set objects to be multi-regional, we get to decide/shuffle the data around at will to meet our storage needs. When you take that control away from us, it reduces the flexibility of our systems, making it more expensive to operate.

upvoted 5 times

JelloMan Highly Voted 2 years, 5 months ago

Selected Answer: B

Continuous access to data means Standard since all of the other options are for infrequently accessed storage (Nearline, Coldline, Archive). Since no other regions are mentioned, single region is best in this case

upvoted 23 times

KRIV_1 2 years, 5 months ago

And beacuse single region is "costly-effective".

upvoted 8 times

denno22 Most Recent 2 weeks, 4 days ago

Selected Answer: D

Mission-critcal

upvoted 1 times

Enamfrancis 3 weeks, 5 days ago

Selected Answer: D

I will go for D

upvoted 1 times

iooj 1 month, 1 week ago

I need a spaceship, but please make it from the cheapest materials, my mission is very critical

upvoted 2 times

blackBeard33 8 months ago

Selected Answer: B

I vote for B because of the keywords: miniaml-cost. The question even specified the single region that the use in, dual region wouldnt match the minimal cost requirement.

upvoted 3 times

kuracpalac 7 months, 1 week ago

That was my thinking as well

upvoted 1 times

sinh 9 months, 1 week ago

Selected Answer: D

mission-critical = dual-regional

upvoted 2 times

c2e9cb4 9 months, 2 weeks ago

Selected Answer: D

SLA with dual-region is higher than single region, which sounds normal :
https://cloud.google.com/storage/sla
So, as this platform is mission-critical, we have to maximize the SLA of the storage, so answer D.

upvoted 1 times

Cynthia2023 9 months, 3 weeks ago

Selected Answer: B

Dual-Regional Storage: While dual-regional storage offers higher availability and redundancy by storing data in two geographic locations, it's typically more expensive than regional storage. For mission-critical applications where users are primarily in one geographic area (Boston), the added cost and complexity of dual-regional storage may not be necessary.

upvoted 4 times

roronovazoro 11 months ago

Selected Answer: C

i think C

upvoted 1 times

kuracpalac 7 months, 1 week ago

C is not correct due to using Nearline Storage.

upvoted 1 times

thanab 11 months, 3 weeks ago

Selected Answer: B

The correct answer is B. Configure regional storage for the region closest to the users. Configure a Standard storage class. The files are used in a mission-critical analytics pipeline that is used continually. This means that the files need to be available quickly and reliably. Regional storage is the best option for this because it ensures that the files are stored in the same region as the users. This will minimize latency and ensure that the files are available quickly.
The Standard storage class is the best option for this because it provides a good balance between cost and performance. Nearline storage is a lower-cost option, but it is also slower. Standard storage is a good option for files that are used frequently, but not constantly.
The other options are not as good for this scenario. Dual-regional storage is more expensive than regional storage, and it does not provide any performance benefits. Coldline storage is the lowest-cost option, but it is also the slowest.

upvoted 2 times

VijKall 11 months, 3 weeks ago

Selected Answer: B

I will go with B, as both dual-region and regional has 4 9's availability.
https://cloud.google.com/storage/docs/locations

upvoted 2 times

SinghAnc 1 year ago

Selected Answer: B

Correct answer is B
Requirement is low cost and mission critical. It needs low latency which by using region storage will be achieved.
Dual Storage is more expensive then multi regional. There is no need for dual storage in this case. If there will be a zonal failure it can be handled by regional storage.
Using Dual storage here will increase cost.

upvoted 3 times

scanner2 1 year, 1 month ago

Selected Answer: B

B is correct answer. Cloud storage provides 11 9's durability which is safe for mission critical files. Plus the question provides the users location to be a single region, and minimal cost should be there.

upvoted 4 times

NoCrapEva 1 year, 1 month ago

Selected Answer: B

Because Google Cloud Storage is 11 Nines durable (99.999999999%) its pretty safe for mission critical data (ref: https://cloud.google.com/blog/products/storage-data-transfer/understanding-cloud-storage-11-9s-durability-target). BUT the AVAILABILITY SLA on single region is 99.9% and for dual region its 99.95% (ONLY 0.05% better)... For the additional cost - dual region offers MINIMAL additional availability (ref: https://cloud.google.com/storage/docs/storage-classes#standard)

upvoted 4 times

PiperMe 7 months, 2 weeks ago

This is the best point brought up by anyone here. The 11 9's makes it both cost effective and great for mission-critical

data. Well done.

upvoted 1 times

gpais 1 year, 2 months ago

Selected Answer: B

https://cloud.google.com/storage/docs/locations#location_recommendations

upvoted 3 times

Mo73w 1 year, 5 months ago

Selected Answer: B

C is not correct because it would be more expensive than B. Dual-regional storage is designed for data that needs to be available in multiple regions. It is more expensive than regional storage, but it offers higher availability.

In this case, the files are used in a mission-critical analytics pipeline that is used continually. This means that the files need to be available with low latency. However, the users are only in Boston, MA (United States). Therefore, there is no need for the files to be available in multiple regions.

Therefore, the best option is to configure regional storage for the region closest to the users (us-central1) and configure a Standard storage class. This will be less expensive than dual-regional storage and will still provide the required low latency.

upvoted 3 times

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