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Exam Associate Cloud Engineer All Questions

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EXAM ASSOCIATE CLOUD ENGINEER TOPIC 1 QUESTION 234 DISCUSSION

Actual exam question from Google's Associate Cloud Engineer

Question #: 234

Topic #: 1

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You are migrating a business critical application from your local data center into Google Cloud. As part of your high-availability strategy, you want to ensure that any data used by the application will be immediately available if a zonal failure occurs. What should you do?

- A. Store the application data on a zonal persistent disk. Create a snapshot schedule for the disk. If an outage occurs, create a new disk from the most recent snapshot and attach it to a new VM in another zone.
- B. Store the application data on a zonal persistent disk. If an outage occurs, create an instance in another zone with this disk attached.
- C. Store the application data on a regional persistent disk. Create a snapshot schedule for the disk. If an outage occurs, create a new disk from the most recent snapshot and attach it to a new VM in another zone.
- D. Store the application data on a regional persistent disk. If an outage occurs, create an instance in another zone with this disk attached.

Show Suggested Answer

by [happydays](#) at July 31, 2023, 1:52 p.m.

Comments

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? ? **carlalap** Highly Voted ? 11 months, 2 weeks ago

Answer is D. When you are using regional persistent disks, the data is automatically replicated to two replicas without the requirement of maintaining application replication. There is no need to use a snapshot.

? ? ? upvoted 12 times

? ? **VijKall** Most Recent ? 11 months, 3 weeks ago

Selected Answer: C

Answer is C and not D.

Use regional PD with regular snapshot for data redundancy.

C works, but data will be stale, as there is no latest snapshot.

A&B are out, as they are using regular PD and not regional PD.

? ? ? upvoted 1 times

? ? **VijKall** 11 months, 2 weeks ago

I come back to correct this. Answer is D. Regional PD will be accessible even when zone fails and app can be brought up using same disk in different zone.

? ? ? upvoted 8 times

? ? **recluse7** 12 months ago

Selected Answer: C

Option C provides the best combination of data redundancy and recovery speed, making it the ideal choice for high-availability scenarios. While other options like option A (zonal persistent disk with snapshots) or option D (regional disk with instances in other zones) can also work, they may not offer the same level of efficiency and data protection as option C. Option B (zonal disk without replication) is less desirable because it lacks data redundancy and necessitates manual intervention to restore data in case of a zonal failure.

? ? ? upvoted 1 times

? ? **joao_01** 1 year, 1 month ago

Selected Answer: D

I thought first it was C. Then I saw Google documentation and for sure the answer is D.

? ? ? upvoted 3 times

? ? **Captain1212** 1 year, 1 month ago

Selected Answer: D

D is the correct answer

? ? ? upvoted 3 times

? ? **DannSecurity** 1 year, 1 month ago

C,

If you are designing robust systems or high availability services on Compute Engine, use regional Persistent Disk combined with other best practices such as backing up your data using snapshots.

? ? ? upvoted 2 times

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

It should be D.

? ? ? upvoted 1 times

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

Selected Answer: D

D, C doesn't make sense because article explicitly says that: 'During the failover, the regional persistent disk that is synchronously replicated to the secondary zone is force attached to the standby VM by the application control plane, and all traffic is directed to that VM based on health check signals.'

<https://cloud.google.com/compute/docs/disks/high-availability-regional-persistent-disk#failover>

? ? ? upvoted 3 times

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

Selected Answer: D

The benefit of regional persistent disks is that in the event of a zonal outage, where your virtual machine (VM) instance might become unavailable, you can usually force attach a regional persistent disk to a VM instance in a secondary zone in the same region.

? ? ? upvoted 4 times

? ? **3arle** 1 year, 2 months ago

Selected Answer: D

<https://cloud.google.com/compute/docs/disks/high-availability-regional-persistent-disk>

<https://cloud.google.com/compute/docs/disks/high-availability-regional-persistent-disk>

   upvoted 2 times

  **Vigneshshvar** 1 year, 2 months ago

CHATGPT says C



   upvoted 2 times

  **PiperMe** 7 months, 3 weeks ago

For the love of everything holy, stop using Chat GPT. The snapshot process is unnecessary and introduces delays during the restore phase, impacting how quickly data can be made available. Regional disks replicate data across multiple zones within a region. This means your data is always available even if a single zone goes down. In case of a zonal failure, you can seamlessly spin up a new instance in another zone within the same region and directly attach the existing regional disk to it.

D is a much better solution.

   upvoted 1 times

  **hoai_nam_1512** 1 year, 2 months ago

correct: C

   upvoted 2 times

  **Speridian** 1 year, 2 months ago

It should be C.

   upvoted 2 times

  **Husni_adam** 1 year, 2 months ago

Selected Answer: C

I think c, for high availability use regional instead of zonal, and you can create snapshot to protect against data loss
https://cloud.google.com/compute/docs/disks#reliability_2:~:text=Similar%20to%20zonal%20Persistent%20Disk%2C%20you%20can%20create%20snapshots%20of%20Persistent%20Disk%20to%20protect%20against%20data%20loss%20due%20to%20user%20error.%20Snapshots%20are%20incremental%2C%20and%20take%20only%20minutes%20to%20create%20even%20if%20you%20snapshot%20disks%20that%20are%20attached%20to%20running%20instances.

   upvoted 2 times

  **happydays** 1 year, 2 months ago

Selected Answer: D

Chat Gpt sayd "D"

   upvoted 2 times

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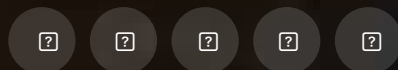
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