EXAM CLOUD DIGITAL LEADER TOPIC 1 QUESTION 6 DISCUSSION

Actual exam question from Google's Cloud Digital Leader
Question #: 6
Topic #: 1
[All Cloud Digital Leader Questions]

Your organization runs a distributed application in the Compute Engine virtual machines. Your organization needs redundancy, but it also needs extremely fast communication (less than 10 milliseconds) between the parts of the application in different virtual machines.
Where should your organization locate this virtual machines?

A. In a single zone within a single region

B. In different zones within a single region

C. In multiple regions, using one zone per region

D. In multiple regions, using multiple zones per region

Show Suggested Answer

by kitubha at *Dec. 29, 2021, 4:56 p.m.*

Comments

SemiDeus Highly Voted 2 years, 9 months ago

I chose B since it guarantees a latency of ~10 milliseconds is maintained, well also giving the redundancy of multi-zone. If it was D, we could not guarantee 10 milliseconds between the different regions.

upvoted 46 times

prekair0 Highly Voted 2 years, 9 months ago

Selected Answer: B

Multi zone is also redundant within the region and it provides the lowest latency.

upvoted 12 times

Swollenbadger Most Recent 2 months ago

Selected Answer: D

Gonna go with D even though C is also valid because distributing across regions and zones is recommended.

upvoted 1 times

Surek 9 months, 4 weeks ago

Answer is B

upvoted 1 times

Surek 10 months ago

Answer B

upvoted 1 times

xDSKick 10 months, 3 weeks ago

Selected Answer: B

Options A, C, and D involve spreading the virtual machines across different configurations, such as single zone, multiple regions with one zone per region, or multiple zones per region. While these options may offer redundancy to some extent, they might not guarantee the desired extremely fast communication due to potential increased latency between different regions or zones.
Therefore B

upvoted 4 times

chai_gpt 11 months, 3 weeks ago

Selected Answer: B

B is correct

upvoted 1 times

chai_gpt 11 months, 3 weeks ago

Selected Answer: B

B is correct

upvoted 1 times

mahiravan 11 months, 3 weeks ago

Selected Answer: D

https://cloud.google.com/compute/docs/regions-zones
Depending on how widely you want to distribute your resources, create instances across multiple zones in multiple regions for redundancy.

upvoted 1 times

custodio 1 year ago

Answer correct is B accordind to 'Decreased network latency
To decrease network latency, you might want to choose a region or zone that is close to your point of service. For example, if you mostly have customers on the East Coast of the US, then you might want to choose a primary region and zone that is close to that area and a backup region and zone that is also close by.' Section at
https://cloud.google.com/compute/docs/regions-zones/

upvoted 1 times

__rajan__ 1 year ago

Selected Answer: B

In different zones within a single region

upvoted 1 times

louiselz 1 year ago

AnswerD accordind to 'Identifying a region or zone' Section at https://cloud.google.com/compute/docs/regions-zones/

upvoted 1 times

mdsarfraz69 1 year, 1 month ago

Selected Answer: D

D is correct one

upvoted 1 times

adyanrado 1 year, 1 month ago

Selected Answer: D

D is correct because guarantee slow latency between regions and zones in case of any zone failed, yet have slow latency between regions

upvoted 2 times

jaya7 1 year, 1 month ago

I chose B as the latency is less between zones in a single region

upvoted 1 times

tperelle 1 year, 2 months ago

Selected Answer: B

I chose B. Looking to the Google Cloud performance dashboard, latency between multiple zone of a same region is ~1ms, communication between multiple regions is ~100ms. So multi-zones provides redundancy and latency < 10ms

upvoted 1 times

AKSArch 1 year, 2 months ago

Selected Answer: B

10ms latency is the keyword here. The multi-region configuration would definitely be affected by latency. I would go for option B

upvoted 1 times

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