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EXAM ASSOCIATE CLOUD ENGINEER TOPIC 1 QUESTION 212 DISCUSSION

Actual exam question from Google's Associate Cloud Engineer
Question #: 212
Topic #: 1
[All Associate Cloud Engineer Questions]

You are running a web application on Cloud Run for a few hundred users. Some of your users complain that the initial web page of the application takes much longer to load than the following pages. You want to follow Google's recommendations to mitigate the issue. What should you do?

A. Set the minimum number of instances for your Cloud Run service to 3.

B. Set the concurrency number to 1 for your Cloud Run service.

C. Set the maximum number of instances for your Cloud Run service to 100.

D. Update your web application to use the protocol HTTP/2 instead of HTTP/1.1.

Show Suggested Answer

by techsteph at *July 17, 2023, 2:24 p.m.*

Comments

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ovokpus Highly Voted 1 year ago

Selected Answer: A

This is a typical cold start problem. Cold starts happen when a serverless platform like Cloud Run needs to start a new instance to handle a request because no suitable instances are available. This startup time can cause a delay, which is noticeable to users, especially on the first page load.

upvoted 9 times

VijKall Most Recent 11 months, 3 weeks ago

Selected Answer: A

Both A and D looks good.
But going with A as it is worded as some users are impacted during startup, http/2 would help resolve more than what issue is worded here.

upvoted 1 times

joao_01 1 year, 1 month ago

Its A. Look at this link: https://cloud.google.com/run/docs/tips/general#optimize_performance

You'll see that one of Google's recommendations for improve performance and reduce "cold starts", is to set a minimum of instances.

upvoted 3 times

DannSecurity 1 year, 1 month ago

I checked the google recommendations for cloud run but they never mention HTTP/2. I am going with A

upvoted 1 times

Cherrycardo 1 year, 2 months ago

Selected Answer: A

https://cloud.google.com/functions/docs/configuring/min-instances
Even though the initial # of instances present in the VM is not stated, setting a min amount of instances "can further help you avoid cold starts and reduce application latency".

upvoted 1 times

3arle 1 year, 2 months ago

Selected Answer: A

min. # of instances should solve latency issue

upvoted 1 times

qannik 1 year, 2 months ago

Selected Answer: A

I chose A too.
The question should be related to GCP products and how can you best configure them.
I shouldn't be forced to change my app to use HTTP/2

upvoted 2 times

qannik 1 year, 2 months ago

https://cloud.google.com/blog/topics/developers-practitioners/3-ways-optimize-cloud-run-response-times

upvoted 1 times

Vzero2333 1 year, 2 months ago

I chosse A
notice ''some of user'' and ''initial web page slowly than other page''
because the some of user login the web without load and the cloud run scale the instance to 0 so that the users had to waiting the startup new instance sometimes.

upvoted 1 times

geeroylenkins 1 year, 3 months ago

Selected Answer: D

https://www.cloudflare.com/learning/performance/http2-vs-http1.1/

I'm going with D too.
B wouldn't help: https://cloud.google.com/run/docs/about-concurrency#concurrency-1
C wouldn't help - setting a max won't increase speed ever.
A would not necessarily help - there's no indication that the initial page is taking much longer just because there are too few instances. However, D would improve how things load, as per the first link I posted.

upvoted 2 times

Speridian 1 year, 3 months ago

It should be D. HTTP/2 helps to speed up app performance.

upvoted 1 times

techsteph 1 year, 3 months ago

Selected Answer: A

https://cloud.google.com/run/docs/configuring/min-instances

upvoted 1 times

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