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Exam Associate Cloud Engineer All Questions

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EXAM ASSOCIATE CLOUD ENGINEER TOPIC 1 QUESTION 240 DISCUSSION

Actual exam question from Google's Associate Cloud Engineer

Question #: 240

Topic #: 1

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You have an on-premises data analytics set of binaries that processes data files in memory for about 45 minutes every midnight. The sizes of those data files range from 1 gigabyte to 16 gigabytes. You want to migrate this application to Google Cloud with minimal effort and cost. What should you do?

- A. Create a container for the set of binaries. Use Cloud Scheduler to start a Cloud Run job for the container.
- B. Create a container for the set of binaries. Deploy the container to Google Kubernetes Engine (GKE) and use the Kubernetes scheduler to start the application.
- C. Upload the code to Cloud Functions. Use Cloud Scheduler to start the application.
- D. Lift and shift to a VM on Compute Engine. Use an instance schedule to start and stop the instance.

Show Suggested Answer

by [gpais](#) at Aug. 2, 2023, 8:53 p.m.

Comments

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taylz876 Highly Voted 1 year ago

Selected Answer: D

Here's why option D is the most appropriate:

->Compute Engine: Compute Engine provides virtual machines (VMs) that closely resemble traditional on-premises servers. It allows you to migrate your existing application as-is to the Google Cloud platform.

->Instance Scheduling: You can schedule the VM instance to start and stop at specific times, such as midnight, to align with your existing processing schedule. This ensures that the application runs at the required time, similar to the on-premises setup.

->Minimal Effort and Cost: The "lift and shift" approach minimizes the need for code modifications or containerization, reducing migration complexity. It also allows you to use the same binaries and configurations as your on-premises setup, saving development effort. You only pay for the VM's compute resources when it's running, making it cost-effective.

upvoted 8 times

joao_01 Highly Voted 1 year, 1 month ago

Selected Answer: D

This one is a tough one. Ill consider this in my answers:

Cost --> Both are more the same (the process will run at the same frequency)

Effort --> Create the image in A takes more effort then to option D.

With this in mind ill choose D. (before i was choosing A).

upvoted 5 times

VijKall 11 months, 3 weeks ago

Cost will reduce as D option is starting VM at midnight for the job and stop after completion.

upvoted 1 times

kuracpalac Most Recent 7 months, 3 weeks ago

For my 2c I think I would have selected A, but D is a possibility.

A because in the long run Cloud Run should cost less than D I believe, as it would take less CPU time through a period of time if data is from 1-16GB.

D could be because it potentially requires "less" effort compared to CR.

upvoted 1 times

carlalap 10 months, 3 weeks ago

I think the answer is C.

Cloud Run is ideal for applications that have short running times and variable workloads, like this data analytics application. Also, Lifting and shifting the application to a VM on Compute Engine would require to manage the VM by a person, including tasks like patching the operating system, managing security updates, and scaling the VM. This is more effort than using Cloud Run.

upvoted 1 times

carlalap 10 months, 2 weeks ago

Sorry, I must correct, I think it's A.

upvoted 2 times

VijKall 11 months, 3 weeks ago

Selected Answer: D

I vote for D.

upvoted 3 times

SinghAnc 1 year ago

Selected Answer: D

D is the correct answer.

upvoted 4 times

Captain1212 1 year, 1 month ago

Selected Answer: D

D is the correct answer as it requires the minimoal effort

upvoted 3 times

scanner2 1 year, 1 month ago

Selected Answer: A

A is correct answer.

upvoted 1 times

tczorro 1 year, 2 months ago

Selected Answer: D

minimal effort is to lift and shift to VM

minimal cost is to use schedule to start and stop the instance

upvoted 4 times

rsvd 1 year, 2 months ago

Selected Answer: A

Things to consider:

1. can cloud functions run binary file?
2. Data file size varies from 1 to 16 GB. so how to determine the VM spec?

upvoted 1 times

3arle 1 year, 2 months ago

i've made mistake, should be D

upvoted 3 times

3arle 1 year, 2 months ago

Selected Answer: A

lift and shift is less effort and cost, you don't have to pay for refactoring or creating image.

upvoted 2 times

qannik 1 year, 2 months ago

Selected Answer: D

I would choose D because I want to migrate this application to Google Cloud with minimal effort and cost. Cloud Run requires to create a container image and this means some kind of development and testing.

upvoted 4 times

gpais 1 year, 2 months ago

Selected Answer: A

A seems to be the less disruptive solution with lower costs

upvoted 2 times

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