Google Discussions

EXAM ASSOCIATE CLOUD ENGINEER TOPIC 1 QUESTION 163 DISCUSSION

Actual exam question from Google's Associate Cloud Engineer
Question #: 163
Topic #: 1
[All Associate Cloud Engineer Questions]

You have developed a containerized web application that will serve internal colleagues during business hours. You want to ensure that no costs are incurred outside of the hours the application is used. You have just created a new Google Cloud project and want to deploy the application. What should you do?

A. Deploy the container on Cloud Run for Anthos, and set the minimum number of instances to zero.

B. Deploy the container on Cloud Run (fully managed), and set the minimum number of instances to zero.

C. Deploy the container on App Engine flexible environment with autoscaling, and set the value min_instances to zero in the app.yaml.

D. Deploy the container on App Engine flexible environment with manual scaling, and set the value instances to zero in the app.yaml.

Show Suggested Answer

by crysk at *March 11, 2021, 3:36 p.m.*

Comments

crysk **Highly Voted** 3 years, 7 months ago

I think that is B the correct answer, because Cloud Run can scale to 0:
https://cloud.google.com/run/docs/about-instance-autoscaling
And App Engine Flexible can't scale to 0, the minimum instance number is 1:
https://cloud.google.com/appengine/docs/the-appengine-environments#comparing_high-level_features

upvoted 39 times

ryumada 2 years, 2 months ago

No for the App Engine Flexible Environment, but App Engine Standard can also scale to zero.

upvoted 3 times

pca2b **Highly Voted** 3 years, 6 months ago

B:
not A because Anthos is an add-on to GKE clusters, 'new project' means we dont have a GKE cluster to work with
https://cloud.google.com/kuberun/docs/architecture-overview#components_in_the_default_installation

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ccpmad **Most Recent** 5 months ago

Selected Answer: B

Container = cloud run (not App Engine)

On AE, app runs as a node process, like booting it up with npm start locally. AE is a traditional hosting platform: it runs continuously and serves requests as they come in. At the end of the month, you pay for the amount of time it was running, which is typically “the entire month”.

Cloud Run runs containers, so for each release you have to build a container and push it to GCP. Unlike App Engine, Cloud Run only runs when requests come in, so you don’t pay for time spent idling.

upvoted 1 times

scanner2 1 year, 1 month ago

Selected Answer: B

Cloud Run is a managed compute platform that lets you run containers directly on top of Google's scalable infrastructure. Cloud Run adds and removes instances automatically to handle all incoming requests. If there are no incoming requests to your service, even the last remaining instance will be removed. This behavior is commonly referred to as scale to zero.
https://cloud.google.com/run/docs/overview/what-is-cloud-run

upvoted 3 times

Captain1212 1 year, 1 month ago

Selected Answer: B

B is the correct answer, in c, d as App engine flexible environment can't scale to Zero and A in this GKE cluster is used but we have just created a project so it will add extra cost

upvoted 1 times

N_A 1 year, 5 months ago

Selected Answer: B

C. and D. are wrong answers as only the App Engine standard environment scales down to zero.
Answer A. will incur extra cost as Cloud Run for Anthos runs on Kubernetes, so need to have a k8s cluster available.
B. Is correct, as "Cloud Run automatically scales up or down from zero to N depending on traffic, leveraging container image streaming for a fast startup time." from https://cloud.google.com/run

upvoted 4 times

Charumathi 2 years ago

Selected Answer: B

B is the correct answer,
Cloud Functions can scale to zero, whereas App Engine will not be able to scale to zero, it should have at least one instance.

Add-on Info,
App-Engine Standard can scale to zero, whereas App-Engine Flexible couldn't scale down to zero.

upvoted 4 times

sylva91 2 years, 1 month ago

Selected Answer: B

B is the answer since we can scale to 0 and the other key word is "containerized"

upvoted 2 times

Roro_Brother 2 years, 3 months ago

Selected Answer: B

B is the right answer

upvoted 1 times

AzureDP900 2 years, 4 months ago

B is correct

upvoted 1 times

tomnatoli75 2 years, 5 months ago

https://cloud.google.com/appengine/docs/standard/python/config/appref
min_instances
Warning: For this feature to function properly, you must make sure that warmup requests are enabled and that your application handles warmup requests.
Note: This setting applies only if the version of the app defined by this app.yaml file is configured to receive traffic. To learn more about routing traffic to different versions of an app, see Splitting Traffic.
Optional. The minimum number of instances for App Engine to create for this module version. These instances serve traffic when requests arrive, and continue to serve traffic even when additional instances are started up as required to handle traffic.
Specify a value from 0 to 1000. You can set the parameter to the value 0 to allow scaling to 0 instances to lower costs when no requests are being served. Note that you are charged for the number of instances specified whether they are receiving traffic or not.

So C

upvoted 1 times

JelloMan 2 years, 5 months ago

Selected Answer: B

along with the reason that most have stated (only Cloud Run can scale down to 0 instances) another reason is that Cloud Run is pay-per-use. App-engine flexible is paid based on usage of vCPU, memory, and persistent disks, so you will be racking up cost quickly just because your VM's are created (regardless if they're running or not)

upvoted 4 times

jblima 2 years, 5 months ago

Selected Answer: B

B is the correct

upvoted 1 times

nshah68 2 years, 7 months ago

Selected Answer: B

Flex caanot scale down to 0. Standard can but that is not relevant here.
Therefore, Cloud Run is the best answer since it can scale down to 0 when there is no traffic

upvoted 3 times

luciorifa 2 years, 8 months ago

Selected Answer: B

Correct anwer is B, Cloud Run is a serverless solution that, same as Cloud Functions, can be activated based on events.

upvoted 1 times

DaveNZ 2 years, 8 months ago

Selected Answer: B

The majority vote here seems to be B so I'm posting this as a voting comment to make that visible. I am not entirely sure, but suspect that the "min-instances" issue is a red herring - that is, I understand why some comments raise this as being a reason why B may not be correct bit I think maybe it's not the intention of the question to focus on that rather tricky aspect.

upvoted 1 times

mahesh0049 2 years, 9 months ago

Option B is correct. After Business hours there will be no collogues to work on that application then cloud run can scale to zero instances

upvoted 2 times

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