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EXAM ASSOCIATE CLOUD ENGINEER TOPIC 1 QUESTION 175 DISCUSSION

Actual exam question from Google's Associate Cloud Engineer

Question #: 175

Topic #: 1

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You have developed an application that consists of multiple microservices, with each microservice packaged in its own Docker container image. You want to deploy the entire application on Google Kubernetes Engine so that each microservice can be scaled individually. What should you do?

- A. Create and deploy a Custom Resource Definition per microservice.
- B. Create and deploy a Docker Compose File.
- C. Create and deploy a Job per microservice.
- D. Create and deploy a Deployment per microservice.

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by [mj98](#) at April 30, 2021, 10:52 a.m.

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[obeythefist](#) [Highly Voted](#) 2 years, 7 months ago

I was a little unsure about this question, here's how I understand why D is the best answer

A. Custom Resource Definition... we have docker containers already, which is an established kind of resource for Kubernetes. We don't need to create a whole new type of resource, so this is wrong.

B. Docker Compose is a wholly different tool from Kubernetes.

C. A Kubernetes job describes a specific "task" which involves a bunch of pods and things. It makes no sense to have one job per microservice, a "Job" would be a bunch of different microservices executing together.

D. is the leftover, correct answer. You can add scaling to each Deployment, an important aspect of the question.

👍 👍 👍 upvoted 25 times

👍 👍 akshaychavan7 2 years, 5 months ago

Thanks for your insights! Makes sense.

👍 👍 👍 upvoted 2 times

👍 👍 Kolipara **Highly Voted** 👍 3 years, 5 months ago

D is the correct answer

👍 👍 👍 upvoted 20 times

👍 👍 taylz876 **Most Recent** 👍 1 year ago

Selected Answer: D

To deploy a microservices-based application on Google Kubernetes Engine (GKE), it's common to create and deploy a Deployment per microservice.

D. Create and deploy a Deployment per microservice.

Here's why:

Deployment: In Kubernetes, a Deployment is a resource that allows you to define, create, and manage the desired number of replicas of your application. Each microservice can be independently managed and scaled using its own Deployment. This approach provides the flexibility to scale individual microservices as needed and manage their lifecycle effectively. Each microservice will have its own set of pods that can be scaled up or down independently, making it suitable for a microservices architecture.

👍 👍 👍 upvoted 4 times

👍 👍 Captain1212 1 year, 1 month ago

Selected Answer: D

D is the correct answer

👍 👍 👍 upvoted 1 times

👍 👍 scanner2 1 year, 1 month ago

Selected Answer: D

D is the correct answer.

👍 👍 👍 upvoted 1 times

👍 👍 Captain1212 1 year, 1 month ago

Selected Answer: D

D seems more correct, as in A, we already have the own docker container image, so no need to create, b is completely different tool, c is also of no use

👍 👍 👍 upvoted 2 times

👍 👍 snkhatri 2 years, 1 month ago

D, keyword "each microservice can be scaled individually"!

👍 👍 👍 upvoted 1 times

👍 👍 abirroy 2 years, 2 months ago

Selected Answer: D

D is the correct answer

👍 👍 👍 upvoted 1 times

👍 👍 AzureDP900 2 years, 4 months ago

D is the best answer among other choices.

👍 👍 👍 upvoted 1 times

👍 👍 Raz0r 2 years, 9 months ago

D is right!

It's one of Google's main ideas to distribute a complex system into microservices. They do it as well and encourage customers to do the same.

👍 👍 👍 upvoted 2 times

👍 👍 alechekim 2 years, 11 months ago

 @alaahakim 2 years, 11 months ago

Selected Answer: D

D is the Answer

   upvoted 2 times

 @alaahakim 2 years, 11 months ago

Ans: D

   upvoted 2 times

 @associatecloudexamuser 3 years, 3 months ago

Yes. D is correct. Can deploy each service through
kubectl apply -f <deployment_config.yaml>

   upvoted 5 times

 @pacman_user 3 years, 3 months ago


D is the correct answer

   upvoted 1 times

 @AD_0525 3 years, 4 months ago

D is correct

   upvoted 2 times

 @norrec9 3 years, 5 months ago

D is the answer

   upvoted 6 times

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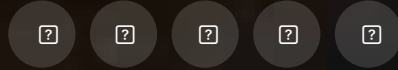
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