



- Expert Verified, Online, Free.

MENU



Google Discussions



Exam Associate Cloud Engineer All Questions

View all questions & answers for the Associate Cloud Engineer exam

Go to Exam

EXAM ASSOCIATE CLOUD ENGINEER TOPIC 1 QUESTION 182 DISCUSSION

Actual exam question from Google's Associate Cloud Engineer

Question #: 182

Topic #: 1

[\[All Associate Cloud Engineer Questions\]](#)

Your company has developed a new application that consists of multiple microservices. You want to deploy the application to Google Kubernetes Engine (GKE), and you want to ensure that the cluster can scale as more applications are deployed in the future. You want to avoid manual intervention when each new application is deployed. What should you do?

- A. Deploy the application on GKE, and add a HorizontalPodAutoscaler to the deployment.
- B. Deploy the application on GKE, and add a VerticalPodAutoscaler to the deployment.
- C. Create a GKE cluster with autoscaling enabled on the node pool. Set a minimum and maximum for the size of the node pool.
- D. Create a separate node pool for each application, and deploy each application to its dedicated node pool.

Show Suggested Answer

by [?snkhatri](#) at *Sept. 3, 2022, 2:44 p.m.*

Comments

Type your comment...

Submit

? ? efar_cloud Highly Voted ? 1 year, 4 months ago

Answer is C

The key point is "ensure that the CLUSTER can scale"

A- HorizontalPodAutoscaler - ensures to scale the number of pods while

C- Create a GKE cluster with autoscaling enabled on the node pool. Set a minimum and maximum for the size of the node pool.

ensures to scale the number of nodes in the cluster.

So the answer is C.

? ? ? upvoted 9 times

? ? WendyLC Highly Voted ? 1 year, 3 months ago

Selected Answer: C

C is the right choice... See this for reference https://cloud.google.com/architecture/best-practices-for-running-cost-effective-kubernetes-applications-on-gke#fine-tune_gke_autoscaling

A- HorizontalPodAutoscaler - it is best suited for stateless workers that can spin up quickly to react to usage spikes, and shut down gracefully to avoid workload instability.

? ? ? upvoted 5 times

? ? denno22 Most Recent ? 2 weeks, 4 days ago

Selected Answer: C

c

? ? ? upvoted 1 times

? ? RKS_2021 4 weeks, 1 day ago

Selected Answer: A

A is right ans

? ? ? upvoted 1 times

? ? yehia2221 2 months, 3 weeks ago

Answer is C:

the HPA is used in for scaling a deployment (an application), but here, the question is asking to scale the cluster when new applications are being added which have different and independent deployments, we have scaling at cluster level, then at deployment level either horizontally or vertically.

? ? ? upvoted 1 times

? ? Cynthia2023 9 months, 3 weeks ago

Selected Answer: A

In the context of deploying a new application and ensuring future scalability with minimal manual intervention, focusing on pod scalability is indeed fundamental. This is accurately addressed by option A (Deploy the application on GKE, and add a HorizontalPodAutoscaler to the deployment).

However, it's also important to have node autoscaling enabled (as mentioned in option C) to ensure that the cluster can accommodate the scaling pods. Both pod and node scaling are important for a fully scalable solution, but the immediate focus when deploying a new application is typically on pod configuration and scaling.

? ? ? upvoted 2 times

? ? PiperMe 7 months, 3 weeks ago

This is incorrect. Horizontal Pod Autoscalers scale based on pod-level metrics such as CPU. While useful, HPAs don't directly address the need to add more nodes if the underlying infrastructure is at capacity. The answer is C which provides the most effective and streamlined way to achieve automatic cluster-level scaling in a GKE environment hosting multiple microservices.

? ? ? upvoted 1 times

? ? MrJkr 1 year, 4 months ago

Selected Answer: A

Its A,

When you first deploy your workload to a Kubernetes cluster, you may not be sure about its resource requirements and how those requirements might change depending on usage patterns, external dependencies, or other factors. Horizontal Pod autoscaling helps to ensure that your workload functions consistently in different situations, and allows you to control costs by only paying for extra capacity when you need it.

? ? ? upvoted 2 times

? ? sabrinakloud 1 year, 6 months ago

Selected Answer: A

i think it is A "you want to ensure that the cluster can scale as more applications are deployed in the future."

? ? ? upvoted 2 times

upvoted 2 times

? ? sabrinakloud 1 year, 6 months ago

Selected Answer: C

option C

? ? ? upvoted 2 times

? ? sabrinakloud 1 year, 6 months ago

option A*

? ? ? upvoted 2 times

? ? dobberzoon 1 year, 6 months ago

Selected Answer: A

Not knowing how many pods, and like nooneknows said, chatgpt... A is correct.

? ? ? upvoted 1 times

? ? nooneknows 1 year, 6 months ago

Chat GPT said A is the Answer!

? ? ? upvoted 2 times

? ? lummy 1 year, 6 months ago

i believe A is the answer, you cant figure out how many nodes you will need in the future...how you gotta set a maximum

? ? ? upvoted 4 times

? ? abdelsha 1 year, 8 months ago

How do you set the maximum number of nodes and you do not know how you app will scale in the future? I think A is more accurate here.

? ? ? upvoted 2 times

? ? xmh5025 1 year, 9 months ago

Selected Answer: A

less manual intervention

? ? ? upvoted 4 times

? ? diasporabro 2 years ago

Selected Answer: C

C is the right choice... See this for reference <https://cloud.google.com/kubernetes-engine/docs/concepts/cluster-autoscaler>

? ? ? upvoted 1 times

? ? Charumathi 2 years ago

Selected Answer: C

C is the correct answer, you can enable the cluster autoscaling in node pool by specifying min and max node size.

https://cloud.google.com/kubernetes-engine/docs/how-to/cluster-autoscaler#adding_a_node_pool_with_autoscaling

? ? ? upvoted 1 times

? ? ale_brd_111 2 years ago

Selected Answer: C

it's mentioning "the cluster can scale" the answer is C

? ? ? upvoted 2 times

[Load full discussion...](#)

Start Learning for free



Social Media

[Facebook](#) , [Twitter](#)

[YouTube](#) , [Reddit](#)

[Pinterest](#)



We are the biggest and most updated IT certification exam material website.

Using our own resources, we strive to strengthen the IT professionals community for free.



© 2024 ExamTopics

ExamTopics doesn't offer Real Microsoft Exam Questions. ExamTopics doesn't offer Real Amazon Exam Questions. ExamTopics Materials do not contain actual questions and answers from Cisco's Certification Exams.

CFA Institute does not endorse, promote or warrant the accuracy or quality of ExamTopics. CFA® and Chartered Financial Analyst® are registered trademarks owned by CFA Institute.