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EXAM ASSOCIATE CLOUD ENGINEER TOPIC 1 QUESTION 277 DISCUSSION

Actual exam question from Google's Associate Cloud Engineer

Question #: 277

Topic #: 1

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Your team has developed a stateless application which requires it to be run directly on virtual machines. The application is expected to receive a fluctuating amount of traffic and needs to scale automatically. You need to deploy the application. What should you do?

- A. Deploy the application on a managed instance group and configure autoscaling.
- B. Deploy the application on a Kubernetes Engine cluster and configure node pool autoscaling.
- C. Deploy the application on Cloud Functions and configure the maximum number instances.
- D. Deploy the application on Cloud Run and configure autoscaling.

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by [RuchiMishra](#) at July 16, 2024, 12:18 p.m.

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[flumoxed_individual](#) 2 months, 4 weeks ago

Selected Answer: A

If the application did not have to be run on VMs I would have chosen D as Cloud Run would be easier and can scale to zero which reduces idle-time cost. But the app does, so MIGs is the choice.

? ? ? upvoted 2 times

? ? **user636** 3 months ago

Selected Answer: A

MIG supports stateless applications.

? ? ? upvoted 2 times

? ? **BuenaCloudDE** 3 months ago

Selected Answer: A

Vote for A

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? ? **RuchiMishra** 3 months, 1 week ago

Selected Answer: A

Here's why A is the most suitable solution:

Managed Instance Groups (MIGs): MIGs are designed to manage groups of identical VMs, making them ideal for running stateless applications. They provide features like auto-scaling, auto-healing, and load balancing, which are crucial for handling fluctuating traffic.

Autoscaling: You can configure autoscaling policies to automatically add or remove VM instances based on metrics like CPU utilization, HTTP load balancing traffic, or Stackdriver Monitoring metrics. This ensures that your application can scale up to handle peak traffic and scale down during periods of low demand.

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