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EXAM ASSOCIATE CLOUD ENGINEER TOPIC 1 QUESTION 9 DISCUSSION

Actual exam question from Google's Associate Cloud Engineer

Question #: 9

Topic #: 1

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You are deploying an application to App Engine. You want the number of instances to scale based on request rate. You need at least 3 unoccupied instances at all times. Which scaling type should you use?

- A. Manual Scaling with 3 instances.
- B. Basic Scaling with min_instances set to 3.
- C. Basic Scaling with max_instances set to 3.
- D. Automatic Scaling with min_idle_instances set to 3.

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by [zukko78](#) at May 11, 2020, 4:48 p.m.

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zukko78 [Highly Voted](#) 4 years, 5 months ago

D is correct.

App Engine supports the following scaling types: which controls how and when instances are created:

App Engine supports the following scaling types, which control how and when instances are created:

Automatic

Basic

Manual

You specify the scaling type in your app's app.yaml.

Automatic scaling

Automatic scaling creates instances based on request rate, response latencies, and other application metrics. You can specify thresholds for each of these metrics, as well as a minimum number instances to keep running at all times.

upvoted 54 times

vincent2023 1 year, 1 month ago

<https://cloud.google.com/appengine/docs/legacy/standard/python/how-instances-are-managed>

upvoted 2 times

Finger41 Highly Voted 3 years, 5 months ago

D is correct : <https://cloud.google.com/appengine/docs/standard/go/config/appref>

"App Engine calculates the number of instances necessary to serve your current application traffic based on scaling settings such as target_cpu_utilization and target_throughput_utilization. Setting min_idle_instances specifies the number of instances to run in addition to this calculated number. For example, if App Engine calculates that 5 instances are necessary to serve traffic, and min_idle_instances is set to 2, App Engine will run 7 instances (5, calculated based on traffic, plus 2 additional per min_idle_instances)."

upvoted 16 times

Buruguduystunstugudunstuy Most Recent 3 weeks, 6 days ago

Selected Answer: D

The correct answer is Option D.

To scale the number of instances based on request rate and ensure that there are always at least 3 unoccupied instances, you should use Automatic Scaling with min_idle_instances set to 3.

Automatic Scaling automatically scales the number of instances based on request rate and other metrics, such as CPU and memory utilization. By setting min_idle_instances to 3, you can ensure that the instance group maintains at least 3 idle instances at all times, ready to handle incoming requests.

upvoted 2 times

YourCloudGuru 3 weeks, 6 days ago

Selected Answer: D

The correct answer is D. Automatic Scaling with min_idle_instances set to 3. By setting min_idle_instances to 3, you can ensure that there are always at least 3 instances available to handle new requests. The other options are not as good:

- A. Manual Scaling requires you to manually adjust the number of instances running your application.
- B. Basic Scaling is a simpler version of Automatic Scaling. It automatically scales the number of instances based on request rate, but it does not allow you to specify the minimum number of idle instances. This means that there is no guarantee that there will always be at least 3 instances available to handle new requests.
- C. The max_instances setting specifies the maximum number of instances to keep running. By setting max_instances to 3, you are limiting the number of instances that your application can scale to. This is not ideal, especially if your application experiences sudden spikes in traffic.

upvoted 4 times

JoniMONI 3 weeks, 6 days ago

Selected Answer: D

D. Automatic Scaling with min_idle_instances set to 3.

Automatic scaling adjusts the number of instances based on the request rate, while maintaining a minimum number of instances available. By setting min_idle_instances to 3, you ensure that at least 3 instances are running and available to handle requests, even when the request rate is low.

Manual scaling allows you to set a fixed number of instances, but does not automatically adjust based on the request rate. Basic scaling adjusts the number of instances based on the request rate, but does not allow you to set a minimum number of idle instances.

In order to keep at least 3 instances running and ready to handle requests, Automatic scaling with min_idle_instances set to 3 is the correct option.

upvoted 4 times

subha.elumalai 5 months ago

Correct Answer: D

Reference:

<https://cloud.google.com/appengine/docs/standard/python/how-instances-are-managed>

upvoted 1 times

thewalker 11 months ago

D.

As per, https://cloud.google.com/appengine/docs/legacy/standard/python/how-instances-are-managed#scaling_types

upvoted 1 times

BAofBK 11 months, 2 weeks ago

The correct answer is D

upvoted 1 times

Evan7557 1 year ago

D is Answer

upvoted 1 times

Captain1212 1 year, 1 month ago

D, as per request it should be automatic right , so d is the right answer

upvoted 1 times

glanshima 1 year, 10 months ago

Selected Answer: D

automatic scaling scales based on request rates, and you giveset min instances that you can run at all times

upvoted 1 times

csline 1 year, 10 months ago

Selected Answer: B

B is correct

upvoted 2 times

jrisl1991 1 year, 8 months ago

Basic Scaling can't take min_instances as parameter.

upvoted 2 times

Sammydp202020 1 year, 8 months ago

True. Reference: https://cloud.google.com/appengine/docs/legacy/standard/java/config/appref#scaling_elements

upvoted 2 times

leogor 1 year, 12 months ago

D, basic and manual scaling are not wise actions

upvoted 1 times

AzureDP900 2 years, 4 months ago

D is correct.

upvoted 1 times

haroldbenites 2 years, 5 months ago

Go for D

upvoted 1 times

shawnnkk 2 years, 11 months ago

D. Automatic Scaling with min_idle_instances set to 3.

upvoted 1 times

vishnukumartr 2 years, 11 months ago

D. Automatic Scaling with min_idle_instances set to 3.

upvoted 1 times

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