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Exam Associate Cloud Engineer All Questions

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☐ **EXAM ASSOCIATE CLOUD ENGINEER TOPIC 1 QUESTION 57 DISCUSSION**

Actual exam question from Google's Associate Cloud Engineer

Question #: 57

Topic #: 1

[All Associate Cloud Engineer Questions]

You have a web application deployed as a managed instance group. You have a new version of the application to gradually deploy. Your web application is currently receiving live web traffic. You want to ensure that the available capacity does not decrease during the deployment. What should you do?

A. Perform a rolling-action start-update with maxSurge set to 0 and maxUnavailable set to 1.

B. Perform a rolling-action start-update with maxSurge set to 1 and maxUnavailable set to 0.

C. Create a new managed instance group with an updated instance template. Add the group to the backend service for the load balancer. When all instances in the new managed instance group are healthy, delete the old managed instance group.

D. Create a new instance template with the new application version. Update the existing managed instance group with the new instance template. Delete the instances in the managed instance group to allow the managed instance group to recreate the instance using the new instance template.

Show Suggested Answer

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by ☐ CarlS at *April 11, 2020, 8:25 a.m.*

Comments

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[?] [?] **CarlS** `Highly Voted` [?] 4 years, 6 months ago

Correct option is B. We need to ensure the global capacity remains intact, for that reason we need to establish maxUnavailable to 0. On the other hand, we need to ensure new instances can be created. We do that by establishing the maxSurge to 1. Option C is more expensive and more difficult to set up and option D won't meet requirements since it won't keep global capacity intact.

[?] [?] [?] upvoted 95 times

    [?] [?] **yeanlingmedal71** 1 year, 10 months ago

    maxSurge- configure how many new instances the MIG can create above its targetSize during an automated update. For example, if you set maxSurge to 5, the MIG uses the new instance template to create up to 5 new instances above your target size. Setting a higher maxSurge value speeds up your update, at the cost of additional instances

    [?] [?] [?] upvoted 13 times

        [?] [?] **space_cadet** 1 year, 7 months ago

        Thanks for this.
        And setting it to one makes sense, seeing that we want a gradual update

        [?] [?] [?] upvoted 1 times

[?] [?] **JavierCorrea** `Highly Voted` [?] 4 years, 1 month ago

I take my own previous comment back. It's definitely B.

[?] [?] [?] upvoted 20 times

[?] [?] **PrivateHulk** `Most Recent` [?] 8 months, 2 weeks ago

I vote for A.
A rolling update with maxSurge set to 0 ensures that no additional instances beyond the desired size are created during the update.
By setting maxUnavailable to 1, only one instance is taken down at a time, minimizing the impact on the available capacity during the deployment.
This approach allows the rolling deployment to proceed in a controlled manner, with each new version gradually replacing instances without decreasing the overall capacity and with zero downtime.

Not Option B
because setting maxSurge to 1 and maxUnavailable to 0, could lead to temporarily increased capacity during the update, and it might result in higher resource usage than necessary. This option may not guarantee zero downtime or minimize the impact on the available capacity during the deployment.

[?] [?] [?] upvoted 1 times

[?] [?] **thewalker** 11 months ago

`Selected Answer: B`

B is the clean way: https://medium.com/@bubu.tripathy/understanding-maxsurge-and-maxunavailable-4966dfafc8ba

[?] [?] [?] upvoted 2 times

[?] [?] **Captain1212** 1 year, 1 month ago

`Selected Answer: B`

B is the correct answer

[?] [?] [?] upvoted 1 times

[?] [?] **Buruguduystunstugudunstuy** 1 year, 8 months ago

`Selected Answer: B`

Answer B is the correct answer because it allows for a safe and controlled rolling deployment with zero downtime and without reducing the available capacity during the deployment.

The `maxSurge` parameter controls the maximum number of new instances that can be created above the desired number of instances during the update process. By setting `maxSurge` to 1, the new version of the application can be gradually rolled out while maintaining the same number of available instances.

The `maxUnavailable` parameter controls the maximum number of instances that can be unavailable during the update process. By setting `maxUnavailable` to 0, at least one instance of the previous version will be available at all times, ensuring that there is no decrease in available capacity during the deployment.

By performing a rolling update with `maxSurge` set to 1 and `maxUnavailable` set to 0, the new version of the application can be gradually deployed with zero downtime and no decrease in available capacity.

[?] [?] [?] upvoted 10 times

    [?] [?] **Buruguduystunstugudunstuy** 1 year, 8 months ago

    Answer A is incorrect because setting maxSurge to 0 means that no additional instances are created beyond the

Answer A is incorrect because setting maxSurge to 0 means that no additional instances are created beyond the existing number of instances in the group, which can potentially lead to a decrease in capacity. Also, setting maxUnavailable to 1 means that one instance can be unavailable at any given time, which can potentially lead to some users experiencing downtime.

Answer C is incorrect because creating a new managed instance group would require adding the new group to the backend service, which can take time and potentially cause downtime. Also, deleting the old managed instance group before ensuring that the new group is healthy can cause a decrease in capacity.

Answer D is incorrect because deleting instances in the managed instance group can cause a temporary decrease in capacity, and it may take some time for new instances to be created with the new instance template. Also, the new instances may take time to warm up, which can cause a delay in serving traffic.

❓ ❓ ❓ upvoted 3 times

❓ ❓ **vlodia** 1 year, 9 months ago

If you do not want any unavailable machines during an update, set the maxUnavailable value to 0 and the maxSurge value to greater than 0. With these settings, Compute Engine removes each old machine only after its replacement new machine is created and running.

https://cloud.google.com/compute/docs/instance-groups/rolling-out-updates-to-managed-instance-groups#max_unavailable

❓ ❓ ❓ upvoted 3 times

❓ ❓ **rajivdutt** 1 year, 9 months ago

If you do not want any unavailable machines during an update, set the maxUnavailable value to 0 and the maxSurge value to greater than 0. With these settings, Compute Engine removes each old machine only after its replacement new machine is created and running.

❓ ❓ ❓ upvoted 1 times

❓ ❓ **Mission94** 1 year, 10 months ago

HI all,

if you guys have all the questions and answers please mail it to untranslatable[dot]character@gmail[dot]com

Thanks in advance.

❓ ❓ ❓ upvoted 2 times

❓ ❓ **Rubankumar** 1 year, 10 months ago

Selected Answer: B

B is Correct

❓ ❓ ❓ upvoted 1 times

❓ ❓ **Shubamakabra** 1 year, 10 months ago

Selected Answer: B

this this this this this

❓ ❓ ❓ upvoted 1 times

❓ ❓ **Zoze** 1 year, 11 months ago

Selected Answer: B

I have seen this question in others websites, and in all of them, the answer is B B B!!.

❓ ❓ ❓ upvoted 2 times

❓ ❓ **leogor** 1 year, 11 months ago

Selected Answer: B

B. maxUnavailable set to 0 is the key

❓ ❓ ❓ upvoted 1 times

❓ ❓ **gcpBeginner** 2 years ago

it should be B. if we change template it cause outage and question said no outage allowed.

❓ ❓ ❓ upvoted 1 times


❓ ❓ **RanjithK** 2 years, 3 months ago

Answer is B

❓ ❓ ❓ upvoted 1 times

❓ ❓ **AzureDP900** 2 years, 4 months ago

Correct option is B. Perform a rolling-action start-update with maxSurge set to 1 and maxUnavailable set to 0. This is also present on Tutorial Dojo practice questions.

❓ ❓ ❓ upvoted 1 times

? ? Backlander 1 year, 4 months ago

Sir, this is a GCP certification platform..

? ? ? upvoted 1 times

? ? LaxmanTiwari 2 years, 4 months ago

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