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Exam Associate Cloud Engineer All Questions

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EXAM ASSOCIATE CLOUD ENGINEER TOPIC 1 QUESTION 124 DISCUSSION

Actual exam question from Google's Associate Cloud Engineer

Question #: 124

Topic #: 1

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You have an application that uses Cloud Spanner as a backend database. The application has a very predictable traffic pattern. You want to automatically scale up or down the number of Spanner nodes depending on traffic. What should you do?

- A. Create a cron job that runs on a scheduled basis to review Cloud Monitoring metrics, and then resize the Spanner instance accordingly.
- B. Create a Cloud Monitoring alerting policy to send an alert to oncall SRE emails when Cloud Spanner CPU exceeds the threshold. SREs would scale resources up or down accordingly.
- C. Create a Cloud Monitoring alerting policy to send an alert to Google Cloud Support email when Cloud Spanner CPU exceeds your threshold. Google support would scale resources up or down accordingly.
- D. Create a Cloud Monitoring alerting policy to send an alert to webhook when Cloud Spanner CPU is over or under your threshold. Create a Cloud Function that listens to HTTP and resizes Spanner resources accordingly.

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by [GCP_Student1](#) at March 11, 2021, 10:54 p.m.

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? ? GCP_Student1 **Highly Voted** ? 3 years, 7 months ago

D. Create a Cloud Monitoring alerting policy to send an alert to webhook when Cloud Spanner CPU is over or under your threshold. Create a Cloud Function that listens to HTTP and resizes Spanner resources accordingly.

? ? ? upvoted 26 times

? ? theBestStudent **Highly Voted** ? 2 years, 2 months ago

Selected Answer: D

Without knowing that much, you can discard easily B,C as they don't make any sense. Automation should be a key in this answer. Also you should discard "A" as with a CronJob you won't span on time as it will be a fixed time checking. So the only one that is left is D, as just creating an alert and sending it to "something else" (in this case a webhook) in an automated way, should be the common sense way of handling this.

? ? ? upvoted 9 times

? ? FeaRoX 1 year, 8 months ago

Isn't "fixed time chacking" appropriate for quote : very predictable traffic pattern?

? ? ? upvoted 1 times

? ? space_cadet 1 year, 7 months ago

Crossed my mind too, but why check every time when you can trigger a response when it happens. Predictability can also be used to determine the threshold.

? ? ? upvoted 1 times

? ? BuenaCloudDE **Most Recent** ? 3 months ago

Why not A if traffic very predictable?

? ? ? upvoted 1 times

? ? cooldude26 11 months, 1 week ago

Selected Answer: D

The most suitable approach to automatically scale the number of Cloud Spanner nodes based on predictable traffic patterns is:

D. Create a Cloud Monitoring alerting policy to send an alert to a webhook when Cloud Spanner CPU is over or under your threshold. Create a Cloud Function that listens to HTTP and resizes Spanner resources accordingly.

This option utilizes Cloud Monitoring alerts and Cloud Functions to dynamically scale Cloud Spanner resources based on CPU thresholds, providing an automated and responsive solution.

? ? ? upvoted 2 times

? ? scanner2 1 year, 1 month ago

Selected Answer: D

Correct answer is D.

? ? ? upvoted 1 times

? ? Captain1212 1 year, 1 month ago

Selected Answer: D

D is the correct Answer as B or C does not do it automatically, and a doesnot use for long spanning

? ? ? upvoted 1 times

? ? temppp 1 year, 10 months ago

Why not A is correct as question suggested specific time where as D is like an unpredectiable time?

? ? ? upvoted 3 times

? ? jrisl1991 1 year, 8 months ago

Because even though the traffic has a clear pattern, if the traffic changes one day (like a special holiday for ecommerce websites), you wouldn't be able to serve accordingly. It's never a good practice use fixed jobs for time-based traffic issues.

? ? ? upvoted 3 times

? ? roaming_panda 1 year, 10 months ago

D is definitely correct .. people

? ? ? upvoted 1 times

? ? abirroy 2 years, 2 months ago

Selected Answer: D

Correct answer is D

Correct answer is D

   upvoted 1 times

  AzureDP900 2 years, 4 months ago

D is correct, It is part of Tutorials Dojo practice test

   upvoted 1 times

  rsuresh27 2 years, 6 months ago

Answer is D. The keyword to look for is "automatically". A, B, C all have steps that are not automatic. Thus, only D is left.

   upvoted 3 times

  alaahakim 2 years, 11 months ago

D is the answer

   upvoted 3 times

  Ricky_92 2 years, 11 months ago

<https://cloud.google.com/architecture/autoscaling-cloud-spanner>

   upvoted 5 times

  kukabura 3 years ago

D is the answer

   upvoted 3 times

  ankatsu2010 3 years ago

It's a tricky question. The answer is 'A'.

Question says traffic pattern is predictable. This means you can schedule the scalability.

You can achieve this easily by using Cloud Spanner's API.



<https://cloud.google.com/spanner/docs/reference/rest/v1/projects.instances/patch>

   upvoted 4 times

  BobbyFlash 2 years, 12 months ago

Really tricky indeed...But if you think about it and you don't stick religiously to "traffic pattern is predictable" sentence (that sentence is to trick you), you would think that despite the pattern is very predictable, it could vary at some point in time. With a cron job you can schedule a job using a fixed starting point and a fixed ending, can't you? Well, what would happen if the app traffic suddenly spikes before your cron job starts running? Or after?. At this point, I go for D, making scalability automatic thanks to Cloud Functions.

   upvoted 6 times

  kuracpalac 8 months, 1 week ago

I would say A also, as your explanation doesn't satisfy me, as the question is really clear that traffic is predictable. It doesn't mention any wiggle room.

   upvoted 1 times

  erikamrqz 3 years ago

D 205%

   upvoted 5 times

  bubblegumbeach 3 years ago

seriously? 205%?

   upvoted 4 times

  jcols 3 years, 4 months ago

Option D. There's an official repository that does something similar to provide autoscaling to Cloud Spanner.

<https://github.com/cloudspannerecosystem/autoscaler>

   upvoted 2 times

  zaxxon 3 years ago



Which uses a Cloud Scheduler so answer A

   upvoted 2 times

  ryumada 2 years, 2 months ago

"...and then resize the Spanner instance accordingly." I think the last sentence says that the resize action is done manually. If so, then D is still the right answer.

   upvoted 1 times

  ryumada 2 years, 2 months ago

For the D option, "Create a Cloud Function that listens to HTTP and resizes Spanner resources accordingly." The listen and resize actions is done by Cloud Function.

   upvoted 1 times

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