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EXAM ASSOCIATE CLOUD ENGINEER TOPIC 1 QUESTION 136 DISCUSSION

Actual exam question from Google's Associate Cloud Engineer

Question #: 136

Topic #: 1

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Your company runs one batch process in an on-premises server that takes around 30 hours to complete. The task runs monthly, can be performed offline, and must be restarted if interrupted. You want to migrate this workload to the cloud while minimizing cost. What should you do?

- A. Migrate the workload to a Compute Engine Preemptible VM.
- B. Migrate the workload to a Google Kubernetes Engine cluster with Preemptible nodes.
- C. Migrate the workload to a Compute Engine VM. Start and stop the instance as needed.
- D. Create an Instance Template with Preemptible VMs On. Create a Managed Instance Group from the template and adjust Target CPU Utilization. Migrate the workload.

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by [filco72](#) at Aug. 11, 2020, 2:03 p.m.

Comments

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juliandm **Highly Voted** 4 years, 2 months ago

i understand preemptible as a no-go because of "must be restarted if interrupted" here meaning "starting from scratch" . So C seems right

upvoted 45 times

jcloud965 3 years, 3 months ago

I agree, C.

you won't run 30 hours job on preemptible instances that can be stopped at any time and can't run more than 24 hours. If the job could be splitted, then preemptible VM is an option.

upvoted 6 times

Vador 3 years ago

Preemptible seems fine on batch jobs for at least 24hours, not the case in here

upvoted 1 times

dttncl 3 years ago

I agree with C. You can't risk running a processes that take 30 hours on a preemptible VM (Compute Engine always stops preemptible instances after they run for 24 hours). They are good for "short-lived" batch jobs. The scenario is NOT fault tolerant as the whole process restarts if interrupted.

<https://cloud.google.com/compute/docs/instances/preemptible>

upvoted 6 times

stepkurniawan **Highly Voted** 4 years, 1 month ago

Preemptible will be perfect for a batch job that takes less than 24 hours. But it's not in this case.

upvoted 16 times

Linus11 3 years, 5 months ago

What if it is a managed group of Pre emptible instances like in D. If one instance stops, another instance will take over.

I choose D.

upvoted 5 times

sanhoo 3 years, 4 months ago

is there an option to specify Pre emptible instances while creating template? I couldn't find that. If so then D can't be true

upvoted 1 times

djgodzilla 3 years, 4 months ago

Yes under management> Availability policy > preemptibility ON/OFF

upvoted 2 times

Enamfrancis **Most Recent** 3 weeks, 6 days ago

Option A

upvoted 1 times

Captain1212 1 year, 1 month ago

Selected Answer: C

Option C is correct, bcoz the job is running for more than 30 hours

upvoted 2 times

tatyavinchu 1 year, 2 months ago

Correct Answer is C

upvoted 1 times

Naree 1 year, 3 months ago

Selected Answer: C

Job runs for 30 hours and must be restarted if interrupted are "indirectly proportional" to "Preemptible"

Ans: C

upvoted 1 times

ankyt9 1 year, 10 months ago

Selected Answer: C

Preemptible VMs are cheaper, but they will not be available beyond 24hrs

? ? ? upvoted 4 times

? ? Charumathi 2 years ago

Selected Answer: C

Selected Answer: C

C is the correct answer,

Install the workload in a compute engine VM, start and stop the instance as needed, because as per the question the VM runs for 30 hours, process can be performed offline and should not be interrupted, if interrupted we need to restart the batch process again. Preemptible VMs are cheaper, but they will not be available beyond 24hrs, and if the process gets interrupted the preemptible VM will restart.

? ? ? upvoted 2 times

? ? KapilDhamija 2 years, 2 months ago

Selected Answer: C

C is the correct answer

? ? ? upvoted 1 times

? ? ryumada 2 years, 2 months ago

Selected Answer: C

The preemptible instance in GKE is same as Compute Engine Instance. They have same behavior that will be last for 24 hours.

Also, see the key here "...and must be restarted if interrupted.". That means the job will start from the scratch again if the preemptible instance terminated. So, you will just wasted your preemptible instances because the job will never be finished.

<https://cloud.google.com/kubernetes-engine/docs/how-to/preemptible-vms#overview>

? ? ? upvoted 1 times

? ? koko2314 2 years, 3 months ago

Option D will achieve the goal here. If a preemptible VM goes down in 24 hours a new one will be built for running the batch process through the instance group configuration.

? ? ? upvoted 1 times

? ? ryumada 2 years, 2 months ago

"...and must be restarted if interrupted."

The job will be start again from a scratch, then run again for another 24 hours in a new preemptible instance, the job will be terminated again after 24 hours, then start again from a scratch for another 24 hours in a new preemptible instance. This make the proces to be an infinite-loop process with wasted resources.

? ? ? upvoted 2 times

? ? AzureDP900 2 years, 4 months ago

A preemptible VM is an instance that you can create and run at a much lower price than normal instances. However, Compute Engine might stop (preempt) these instances if it requires access to those resources for other tasks. Preemptible instances are excess Compute Engine capacity, so their availability varies with usage.

If your apps are fault-tolerant and can withstand possible instance preemptions then preemptible instances can reduce your Compute Engine costs significantly. For example, batch processing jobs can run on preemptible instances. If some of those instances stop during processing, the job slows but does not completely stop. Preemptible instances complete your batch processing tasks without placing additional workload on your existing instances and without requiring you to pay full price for additional normal instances.

Hence, the correct answer is: Build an instance template configured to launch a Preemptible VM. Provision a managed instance group (MIG) from the template you just created. Adjust the Target CPU Utilization setting.

? ? ? upvoted 1 times

? ? AzureDP900 2 years, 3 months ago

C is correct , since job need to run 30 hours .

? ? ? upvoted 1 times

? ? pfabio 2 years, 5 months ago

Selected Answer: C

A - D are not possible because: For example, preemptible VMs can only run for up to 24 hours at a time (<https://cloud.google.com/compute/docs/instances/preemptible>)

I agree with C

? ? ? upvoted 1 times

? ? rsuresh27 2 years, 5 months ago

The answer is C. Many people are saying D but this is incorrect. Preemptible instances are finite Compute Engine resources, so they might not always be available. If there is a long running job that must be restarted, it does not make sense to use preemptible VMs as if there are no resources available, we will not be able to even run or restart the job. Thus, C is correct.

? ? ? upvoted 2 times

? ? dinesh198728 2 years, 7 months ago

Selected Answer: C

auto restart not in Preempt VM

auto restart not in Prem vmi

   upvoted 1 times

  ArunTaneja 2 years, 8 months ago

Selected Answer: C

It should be C Because a Preemptible VM can't run more than 24 hours

   upvoted 1 times

  shputhan 2 years, 9 months ago

Answer is C

- Since it is run on premise server, the expectation is to run it on Compute Engine.
- Preemptible VMs are not an option as it runs for 24 hours only continuously. The batch job takes 30 hours and expects it to be restarted incase of interruptions. (Note it is restart & not resume)

   upvoted 1 times

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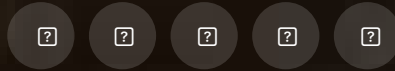
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