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## Exam Cloud Digital Leader All Questions

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### EXAM CLOUD DIGITAL LEADER TOPIC 1 QUESTION 47 DISCUSSION

Actual exam question from Google's Cloud Digital Leader

Question #: 47

Topic #: 1

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Your organization runs an application on virtual machines in Google Cloud. This application processes incoming images. This activity takes hours to create a result for each image. The workload for this application normally stays at a certain baseline level, but at regular intervals it spikes to a much greater workload.

Your organization needs to control the cost to run this application.

What should your organization do?

- A. Purchase committed use discounts for the baseline load
- B. Purchase committed use discounts for the expected spike load
- C. Leverage sustained use discounts for your virtual machines
- D. Run the workload on preemptible VM instances

Show Suggested Answer

by  ahsangh at Dec. 29, 2021, 5:30 p.m.

## Comments

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  **fpreli** Highly Voted  2 years, 9 months ago

A for me, with CUD you get a greater discount and it makes totally sense to buy a CUD for the baseline traffic since it will always be consumed

   upvoted 27 times

  **AAD1** Highly Voted  2 years, 1 month ago

Selected Answer: C

Will go with C. as CUD is applicable for 1 or 3 year period. In the ques, there is no mention of that info. So SUD is appropriate as we cannot assume that the VMs will be used for 1 or 3 years..

   upvoted 16 times

  **Nishantkumar** Most Recent  5 days, 5 hours ago

Correct answer is:

A. Purchase committed use discounts for the baseline load.



Explanation:

Committed Use Discounts (CUDs) are ideal for predictable workloads. By purchasing CUDs for the baseline load, your organization can secure significant savings on the resources that will be consistently used, which helps manage costs effectively.

This approach allows you to commit to a certain level of usage over a specified period (usually one or three years) and receive discounted rates compared to on-demand pricing.

Running the workload on preemptible VM instances (option D) could save costs, but preemptible VMs can be terminated at any time, which may not be suitable for critical workloads that require reliability.

   upvoted 1 times

  **sallymaher** 3 weeks, 2 days ago

A for me .

   upvoted 1 times

  **akmalkk** 1 month ago

Selected Answer: A

for regular spike, its better to go for committed baseline

   upvoted 2 times

  **kalpesh\_bohra** 2 months, 3 weeks ago

D. Run the workload on preemptible VM instances

Here's why this is the best option:

Preemptible VM instances: These are short-lived, low-cost instances that are ideal for handling temporary, bursty workloads. They are significantly cheaper than standard VM instances but can be terminated by Google Cloud with little notice (about 30 seconds). For workloads with predictable spikes, using preemptible VMs can provide a cost-effective solution to handle the increased demand without incurring high costs.

   upvoted 1 times

  **PanosPeris** 5 months ago

Selected Answer: A

The best option to control cost for your organization's image processing application is:




A. Purchase committed use discounts for the baseline load

Here's why the other options are less suitable:

B. Purchase committed use discounts for the expected spike load: Committed use discounts are most beneficial for predictable, ongoing resource usage. Since the spike load is temporary, committing to those resources wouldn't be cost-effective.

C. Leverage sustained use discounts for your VMs: Sustained use discounts reward consistent resource usage at a discount compared to on-demand pricing. However, they might not be ideal for workloads with significant spikes that could push you outside the sustained use window.

D. Run the workload on preemptible VM instances: Preemptible VMs are a good option for highly flexible workloads that can be interrupted. However, for image processing tasks that take hours, interruptions during processing could lead to wasted work and require restarts.

   upvoted 2 times

  **alilikpo** 8 months, 2 weeks ago

Selected Answer: C

your workload has a predictable baseline level. Google Cloud offers sustained use discounts for Compute Engine commitments that reserve VM instances for a period of 1 year or 3 years. This can significantly reduce your costs for the baseline usage.

👍 ↩ 🚩 upvoted 1 times

🗋 👤 **sivakarthick16** 10 months, 1 week ago

**Selected Answer: C**

Sustained use discounts provide cost savings for running virtual machines continuously over a month. Since the workload normally stays at a certain baseline level, leveraging sustained use discounts can help reduce costs for the consistent usage. This approach is suitable when the workload is predictable and doesn't involve significant spikes. However, if the expected spike load is known in advance, option B: Purchasing committed use discounts for the expected spike load could also be considered to optimize costs during those periods. It is important to analyze the workload patterns and cost implications to make an informed decision.

👍 ↩ 🚩 upvoted 3 times

🗋 👤 **ankiiiiiii** 11 months, 1 week ago

**Selected Answer: C**

C for me

👍 ↩ 🚩 upvoted 1 times

🗋 👤 **chai\_gpt** 11 months, 3 weeks ago

**Selected Answer: C**

C is correct

👍 ↩ 🚩 upvoted 1 times

🗋 👤 **chai\_gpt** 11 months, 3 weeks ago

Sorry. A is correct.

👍 ↩ 🚩 upvoted 1 times

🗋 👤 **lemonfan123** 12 months ago

**Selected Answer: A**

A would be correct, since "controlling the cost" is a requirement

👍 ↩ 🚩 upvoted 1 times

🗋 👤 **\_\_rajan\_\_** 1 year ago

**Selected Answer: A**

I think it should be A.

👍 ↩ 🚩 upvoted 1 times

🗋 👤 **mdsarfraz69** 1 year, 1 month ago

**Selected Answer: C**

C is correct

👍 ↩ 🚩 upvoted 1 times

🗋 👤 **Lufly** 1 year, 2 months ago

**Selected Answer: C**

why not to purchase committed use discounts for the baseline load. Here are the reasons why this is not a good option: It would be more expensive than sustained use discounts because you would be paying for the baseline load even when you are not using it.

It would not take into account the spike load. If the spike load is significant, then you would still be paying a lot for the resources that you are using during the spike load.

It would be inflexible. If your workload changes, then you would have to change your committed use commitments, which can be difficult and time-consuming.

👍 ↩ 🚩 upvoted 2 times

🗋 👤 **himanshu3004** 1 year, 2 months ago

**Selected Answer: A**

I feel CUD is a better choice here considering that SUD is automatically applied by Google incase if the VM don't qualify for CUD. so we don't need to explicitly select SUD. However selecting CUD makes more sense because if the VM qualifies for CUD, you won't be losing on the additional cloud savings that CUD offers compared to SUD.

It's more of like with CUD, we have better chances of higher cloud savings at no additional effort/cost which makes it best choice out of all.

👍 ↩ 🚩 upvoted 1 times

🗋 👤 **chinmay\_100** 1 year, 3 months ago

C will be the right choice , as for CUD we require an commitment of 1-3 years whereas for SUD you don't and still get discount.

👍 ↩ 🚩 upvoted 2 times

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