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### Exam Associate Cloud Engineer All Questions

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## EXAM ASSOCIATE CLOUD ENGINEER TOPIC 1 QUESTION 259 DISCUSSION

Actual exam question from Google's Associate Cloud Engineer

Question #: 259

Topic #: 1

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Your Dataproc cluster runs in a single Virtual Private Cloud (VPC) network in a single subnet with range 172.16.20.128/25. There are no private IP addresses available in the subnet. You want to add new VMs to communicate with your cluster using the minimum number of steps. What should you do?

- A. Modify the existing subnet range to 172.16.20.0/24.
- B. Create a new Secondary IP Range in the VPC and configure the VMs to use that range.
- C. Create a new VPC network for the VMs. Enable VPC Peering between the VMs'VPC network and the Dataproc cluster VPC network.
- D. Create a new VPC network for the VMs with a subnet of 172.32.0.0/16. Enable VPC network Peering between the Dataproc VPC network and the VMs VPC network. Configure a custom Route exchange.

Show Suggested Answer

by [shiowbah](#) at Dec. 30, 2023, 6:56 a.m.

## Comments

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apb98 Highly Voted 9 months, 3 weeks ago

Selected Answer: A

A. Same as question 129. Option A involves modifying the subnet range of the existing VPC network to increase the number of available IP addresses. By changing the subnet range to 172.16.20.0/24, you will have a larger IP address range to allocate to new VMs, allowing them to communicate with the Dataproc cluster.

To expand the IP range of a Compute Engine subnetwork, you can use:  
gcloud compute networks subnets expand-ip-range NAME

upvoted 9 times

Arjun727 8 months, 3 weeks ago

Modify is not equals to Expanding

upvoted 1 times

ashiqnazeem 8 months, 3 weeks ago

not the same question.

Question #: 259 : "There are no private IP addresses available in the subnetwork"

Question #: 129 : "There are no private IP addresses available in the VPC network."

upvoted 3 times

denno22 Most Recent 1 week, 3 days ago

Selected Answer: A

gcloud compute networks subnets expand-ip-range - expand the IP range of a Compute Engine subnetwork

upvoted 1 times

omunoz 5 months, 1 week ago

The question state "using the minimum number of steps" , then it should be A.

upvoted 2 times

kuracpalac 7 months, 3 weeks ago

I would say A is the answer, but I have no idea what the Q means when specifying "You want to add new VMs to communicate with your cluster using the minimum number of steps."

Does it mean that you want to add VMs and use the same subnet or add new VMs and use another subnet and then want those VMs communicating with the VMs in the other subnet?

upvoted 1 times

STEVE\_PEGLEG 8 months, 3 weeks ago

Selected Answer: C

The reason A isn't correct is because you can only expand a subnet by "setting the prefix length to a smaller number"  
See: <https://cloud.google.com/vpc/docs/create-modify-vpc-networks#expand-subnet>

The reason B isn't correct is because you can only use a secondary (aka 'alias') IP address when there is a primary already in place. In this scenario this isn't possible to do for the new VMs because there are no primary IP addresses available.

Therefore C seems like a feasible approach, with fewer steps than D (even if D is possible, which I don't know).

upvoted 1 times

JB28 9 months, 1 week ago

The correct answer is \*\*A\*\*.

To add new VMs to communicate with your Dataproc cluster using the minimum number of steps, you should:  
- \*\*Modify the existing subnet range\*\* to 172.16.20.0/24. This will expand the range of available IP addresses in the subnet, allowing you to add new VMs.

The other options (B, C, and D) are not correct because they involve more steps than necessary (such as creating a new Secondary IP Range, a new VPC network, or enabling VPC Peering), which is not aligned with the requirement of using the minimum number of steps.

upvoted 3 times

venomblade 9 months, 3 weeks ago

Answer is A

upvoted 3 times

kaby1987 9 months, 3 weeks ago

Selected Answer: C

Option C is right one as we dont have additional private ips left

For option D, This option is viable but is more complex than simply creating a new VPC and establishing VPC Peering.

upvoted 2 times

upvoted 2 times

KelvinToo 9 months, 3 weeks ago

**Selected Answer: B**

Per ChatGPT, Option B aligns with the requirement of adding new VMs to communicate with the Dataproc cluster using the minimum number of steps while addressing the constraint of no available private IP addresses in the existing subnetwork.

upvoted 1 times

shiowbah 9 months, 3 weeks ago

B. Create a new Secondary IP Range in the VPC and configure the VMs to use that range.

upvoted 1 times

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