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Exam Associate Cloud Engineer All Questions

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EXAM ASSOCIATE CLOUD ENGINEER TOPIC 1 QUESTION 50 DISCUSSION

Actual exam question from Google's Associate Cloud Engineer

Question #: 50

Topic #: 1

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You have production and test workloads that you want to deploy on Compute Engine. Production VMs need to be in a different subnet than the test VMs. All the VMs must be able to reach each other over Internal IP without creating additional routes. You need to set up VPC and the 2 subnets. Which configuration meets these requirements?

- A. Create a single custom VPC with 2 subnets. Create each subnet in a different region and with a different CIDR range.
- B. Create a single custom VPC with 2 subnets. Create each subnet in the same region and with the same CIDR range.
- C. Create 2 custom VPCs, each with a single subnet. Create each subnet in a different region and with a different CIDR range.
- D. Create 2 custom VPCs, each with a single subnet. Create each subnet in the same region and with the same CIDR range.

Show Suggested Answer

by [JamesBond](#) at March 25, 2020, 4:17 p.m.

Comments

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JamesBond Highly Voted 4 years, 7 months ago

A is correct

upvoted 35 times

nwk Highly Voted 3 years, 12 months ago

Vote A

<https://cloud.google.com/vpc/docs/using-vpc#subnet-rules>

Primary and secondary ranges for subnets cannot overlap with any allocated range, any primary or secondary range of another subnet in the same network, or any IP ranges of subnets in peered networks.

upvoted 22 times

fighter001 Most Recent 5 months, 1 week ago

Wrong question with wrong answer

upvoted 3 times

ranjitsinhgutte 1 year ago

A is correct

If you create more than one subnet in a VPC, the CIDR blocks of the subnets cannot overlap. For example, if you create a VPC with CIDR block 10.0.0.0/24, it supports 256 IP addresses. You can break this CIDR block into two subnets, each supporting 128 IP addresses.

upvoted 4 times

certboss 1 year, 1 month ago

For anyone new to the business, prod and test networks should never talk to each other.... The requirement in this question (that both envs can reach each other) is completely against best practice and common sense... There should always be complete network isolation between prod and non-prod environments.

upvoted 7 times

iooj 1 month, 2 weeks ago

in reality, business leads will push you to make such a connection, for example, because the test environment doesn't have enough data for testing...

upvoted 1 times

fraiacca 1 year, 1 month ago

Selected Answer: A

I tried to create a VPC with 2 subnets in same region and same CIDR

I got the following error

Operation type [insert] failed with message "Invalid IPCidrRange: 10.0.0.0/28 conflicts with existing subnetwork 'subnet-1' in region 'asia-east1'."

upvoted 3 times

Seleth 2 months, 3 weeks ago

"same CIDR" means the same range of addresses. You cannot have two networks overlapping anywhere because the IPs will conflict.

upvoted 1 times

Captain1212 1 year, 1 month ago

A is correct as it help to make sure they have a differenret subnets

upvoted 1 times

raselsys 1 year, 7 months ago

Selected Answer: A

A is the correct Answer. People voting for B need to improve their networking knowledge.

upvoted 5 times

Buruguduystunstugudunstuy 1 year, 8 months ago

Selected Answer: A

ANSWER A meets the requirement because it creates a single custom VPC with 2 subnets, with each subnet in a different region and with a different CIDR range. This ensures that the production and test VMs are in separate subnets and that they can communicate with each other over Internal IP without creating additional routes. Since the subnets are in different regions, they will also have different internal routing tables, which can help isolate the traffic between the two subnets. This configuration provides the necessary network isolation and connectivity required by the production and test workloads.

ANSWER B suggests creating a single custom VPC with two subnets in the same region and with the same CIDR range.

However, the requirement is that production VMs need to be in a different subnet than the test VMs. With the subnets in the

however, the requirement is that production vms need to be in a different subnet than the test vms. with the subnets in the same region and with the same CIDR range, it would not be possible to separate the production and test VMs into different subnets. Therefore, ANSWER B does not meet the requirement.

👍 ↩ 🚩 upvoted 14 times

🗨️ 👤 NosFerazi 1 year, 8 months ago

Selected Answer: A

<https://www.youtube.com/watch?v=XLafU1t9pM8>

8:15

👍 ↩ 🚩 upvoted 2 times

🗨️ 👤 sidharthwader 1 year, 9 months ago

I feel the Answer is A it has to be in the same VPC to talk to each other but on 2 different subnet but is there any sense to have it different region? It should be fine with different CIDR for same region i feel

👍 ↩ 🚩 upvoted 2 times

🗨️ 👤 leogor 1 year, 12 months ago

Selected Answer: A

A, same VPC network with different CIDR range

👍 ↩ 🚩 upvoted 1 times

🗨️ 👤 PKookNN 2 years ago

A is correct

👍 ↩ 🚩 upvoted 1 times

🗨️ 👤 Robertolo 2 years ago

Selected Answer: A

It has to be A: one VPC, two subnets in different regions and different CIDR range. (It would also be valid to have both subnets in the same region.)

What about option B? We know that "each primary or secondary IPv4 range for all subnets in a VPC network must be a unique valid CIDR block" (read here <https://cloud.google.com/vpc/docs/subnets#ipv4-ranges>). Thus, prod and test subnets cannot overlap -> option B is not valid.

Options C and D are not valid neither, because "all the VMs must be able to reach each other" - this will not happen if we distribute the VMs across two VPC.

👍 ↩ 🚩 upvoted 4 times

🗨️ 👤 manukoli1986 2 years ago

Leutenant_Ololo, I test and checked. It is B answer

👍 ↩ 🚩 upvoted 1 times

🗨️ 👤 FeaRoX 1 year, 8 months ago

how do you want to have 2 subnets with same CIDR? Not only in GCP but anywhere...

👍 ↩ 🚩 upvoted 1 times

🗨️ 👤 Akhi2022 2 years, 2 months ago

Option A is incorrect, see what us says "create each subnet in a different region and with a different CIDR range" in this case routing is required due different CIDR range.

Option B is correct, If you create 2 subnets in same CIDR you can communicate over internal IP without additional routing.

👍 ↩ 🚩 upvoted 4 times

🗨️ 👤 Leutenant_Ololo 2 years ago

routers will be created automatically. Just go create a new VPC with 2 subnets and then check routes.

<https://cloud.google.com/vpc/docs/routes#subnet-routes>

👍 ↩ 🚩 upvoted 2 times

🗨️ 👤 73173v2 2 years, 2 months ago

Selected Answer: A

Different regions is something odd, but the main reason why its A is cause the CIDR range.



CIDR is the short for Classless Inter-Domain Routing. So, if we have 2 subnets, they CAN NOT BE the use the same CIDR.

IPv4 subnet ranges

"Each primary or secondary IPv4 range for all subnets in a VPC network must be a unique valid CIDR block. Refer to the per network limits for the number of secondary IP ranges you can define."

<https://cloud.google.com/vpc/docs/vpc>

👍 ↩ 🚩 upvoted 4 times

  ryumada 2 years, 2 months ago

You should understand that the VPC is a Global Resource. You can create a VPC and having subnets accross regions. This subnets could communicate to each other through their Private IP.

<https://cloud.google.com/sql/docs/mysql/private-ip#overview>

   upvoted 3 times

  uk_dataguy 1 year ago

It seems that it doesn't have to be different regions, but the CIDR range should be different. That's the key

   upvoted 1 times

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