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EXAM ASSOCIATE CLOUD ENGINEER TOPIC 1 QUESTION 149 DISCUSSION

Actual exam question from Google's Associate Cloud Engineer

Question #: 149

Topic #: 1

[All Associate Cloud Engineer Questions]

You are running multiple VPC-native Google Kubernetes Engine clusters in the same subnet. The IPs available for the nodes are exhausted, and you want to ensure that the clusters can grow in nodes when needed. What should you do?

A. Create a new subnet in the same region as the subnet being used.

B. Add an alias IP range to the subnet used by the GKE clusters.

C. Create a new VPC, and set up VPC peering with the existing VPC.

D. Expand the CIDR range of the relevant subnet for the cluster.

Show Suggested Answer

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by   **MohammedGhouse** at *Aug. 12, 2020, 10:25 a.m.*

Comments

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

Correct Answer is (D):

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

https://cloud.google.com/sdk/gcloud/reference/compute/networks/subnets/expand-ip-range

upvoted 30 times

magistrum 3 years, 9 months ago

Ok D it is, here's the GKE specific documentation
https://cloud.google.com/kubernetes-engine/docs/concepts/alias-ips
Every subnet must have a primary IP address range. You can expand the primary IP address range at any time, even when Google Cloud resources use the subnet; however, you cannot shrink or change a subnet's primary IP address scheme after the subnet has been created. The first two and last two IP addresses of a primary IP address range are reserved by Google Cloud.

upvoted 8 times

MohammedGhouse `Highly Voted` 4 years, 2 months ago

D: is the answer

upvoted 12 times

SSPC 4 years, 2 months ago

I agree with you. https://cloud.google.com/vpc/docs/configure-alias-ip-ranges#gcloud_1

upvoted 2 times

Captain1212 `Most Recent` 1 year, 1 month ago

`Selected Answer: D`

D is the correct Answer, as you just expand the range

upvoted 2 times

Bobbybash 1 year, 8 months ago

`Selected Answer: D`

D. Expand the CIDR range of the relevant subnet for the cluster.

Expanding the CIDR range of the relevant subnet for the cluster would increase the number of available IP addresses and allow the clusters to grow when needed. This can be done by modifying the existing subnet's IP address range in the VPC network settings. Adding a new subnet or VPC peering would not directly address the issue of running out of available IP addresses in the current subnet. Adding an alias IP range to the subnet could provide additional IP addresses, but may not be sufficient for long-term growth.

upvoted 2 times

AwesomeGCP 2 years ago

`Selected Answer: D`

D. Expand the CIDR range of the relevant subnet for the cluster.

upvoted 1 times

learn_GCP 2 years ago

`Selected Answer: D`

D. Expanding CIDR range is enough.

upvoted 1 times

sonuricky 2 years, 2 months ago

C is the right answer

upvoted 1 times

ryumada 2 years, 2 months ago

Please provide the reason why you choose C as the right answer. ESP_SAP explains clearly about the reason why he choose D as the right answer even he add Google Documentation link too to prove his answer.

upvoted 2 times

Bumbah 2 years, 3 months ago

`Selected Answer: D`

Correct answer is D:
https://cloud.google.com/vpc/docs/create-modify-vpc-networks#expand-subnet
Just expand your subnet.

upvoted 1 times

AzureDP900 2 years, 4 months ago

D is right

D is right
upvoted 1 times

GCP_Student1 **3 years, 7 months ago**
This might help

Node limiting ranges
The maximum number of Pods and Services for a given GKE cluster is limited by the size of the cluster's secondary ranges. The maximum number of nodes in the cluster is limited by the size of the cluster's subnet's primary IP address range and the cluster's Pod address range.

The Cloud Console shows error messages like the following to indicate that either the subnet's primary IP address range or the cluster's Pod IP address range (the subnet's secondary IP address range for Pods) has been exhausted:

Instance [node name] creation failed: IP space of [cluster subnet] is
exhausted
Note: Secondary subnets are not visible in Cloud Console. If you can't find the [cluster subnet] reported by the above error message it means that the error is caused by IP exhaustion in a secondary subnet. In this case check the secondary ranges of the primary subnet.

https://cloud.google.com/kubernetes-engine/docs/concepts/alias-ips#node_limiters
upvoted 6 times

GCP_Student1 **3 years, 7 months ago**
By the way the answer is;

D. Expand the CIDR range of the relevant subnet for the cluster.
upvoted 3 times

Ozymandiax **3 years, 9 months ago**
UHmmm, 1 question. The description of the problem says that the ip's are EXHAUSTED. So, no more IP's available in this subnet.

It also states that we're having a multi-VPC environment... as allways we should not interpret, just take the questions literally.

IF we do not know the actual size of the deployment it cna be ANY size, adn if IP's are EXHAUSTED, it should BE, BIG as Galactic sized or so....

With all this I wonder if the right answer it is not C...
upvoted 3 times

akshaym87 **2 years, 9 months ago**
Same doubt!
VPC peering seems correct to me.
upvoted 1 times

Bhagirathi **3 years, 11 months ago**
D best option to think here.
upvoted 2 times

hicham **3 years, 8 months ago**
totaly agree
upvoted 1 times

swatititame **3 years, 11 months ago**
D. Expand the CIDR range of the relevant subnet for the cluster.
upvoted 1 times

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