← **Google Discussions**

Exam Professional Data Engineer All Questions

View all questions & answers for the Professional Data Engineer exam

Go to Exam

📄 **EXAM PROFESSIONAL DATA ENGINEER TOPIC 1 QUESTION 198 DISCUSSION**

Actual exam question from Google's Professional Data Engineer

Question #: 198

Topic #: 1

[All Professional Data Engineer Questions]

You are implementing workflow pipeline scheduling using open source-based tools and Google Kubernetes Engine (GKE). You want to use a Google managed service to simplify and automate the task. You also want to accommodate Shared VPC networking considerations. What should you do?

A. Use Dataflow for your workflow pipelines. Use Cloud Run triggers for scheduling.

B. Use Dataflow for your workflow pipelines. Use shell scripts to schedule workflows.

C. Use Cloud Composer in a Shared VPC configuration. Place the Cloud Composer resources in the host project.

D. Use Cloud Composer in a Shared VPC configuration. Place the Cloud Composer resources in the service project.

Show Suggested Answer

by 👤 ducc at *Sept. 3, 2022, 4 a.m.*

Comments

Type your comment...

Submit

⊟ 👤 **AWSandeep** `Highly Voted 👍` 2 years, 8 months ago

`Selected Answer: D`

D. Use Cloud Composer in a Shared VPC configuration. Place the Cloud Composer resources in the service project.

Shared VPC requires that you designate a host project to which networks and subnetworks belong and a service project, which is attached to the host project. When Cloud Composer participates in a Shared VPC, the Cloud Composer environment is in the service project.

Reference:
https://cloud.google.com/composer/docs/how-to/managing/configuring-shared-vpc

👍 ↩ 🏳 upvoted 17 times

☐ 👤 **loki82** `Most Recent ⊘` 3 months, 1 week ago

`Selected Answer: D`

Using the host project to deploy services is a bad practice and should only be used if the service doesn't support shared VPC. It may be easier networking wise, but that's why it's the wrong answer. Cloud Composer supports Shaved VPC, so it should go in it's own project.

👍 ↩ 🏳 upvoted 1 times

☐ 👤 **8284a4c** 6 months ago

`Selected Answer: C`

Place in host project for network connectivity

👍 ↩ 🏳 upvoted 1 times

☐ 👤 **ToiToi** 6 months ago

`Selected Answer: C`

The recommended approach is to place Cloud Composer resources in the host project of the Shared VPC. This centralizes network management, simplifies connectivity, and enhances security by adhering to the principle of least privilege.

👍 ↩ 🏳 upvoted 2 times

☐ 👤 **TVH_Data_Engineer** 11 months, 2 weeks ago

`Selected Answer: C`

Placing Cloud Composer resources in the service project can lead to more complex network configurations and management overhead compared to placing them in the host project, which is designed to manage Shared VPC resources.

👍 ↩ 🏳 upvoted 2 times

☐ 👤 **vamgcp** 1 year, 9 months ago

Please correct if I am wrong.. I think it is Option C coz I feel Option D is incorrect because placing the Cloud Composer resources in the service project would not allow you to access resources in the host project.

👍 ↩ 🏳 upvoted 2 times

☐ 👤 **spicebits** 1 year, 6 months ago

https://cloud.google.com/composer/docs/composer-2/configure-shared-vpc#shared-vpc-guidelines

👍 ↩ 🏳 upvoted 1 times

☐ 👤 **Ender_H** 1 year, 11 months ago

`Selected Answer: A`

Use Cloud Composer in a Shared VPC configuration. Place the Cloud Composer resources in the service project.

- Cloud Composer is a managed Apache Airflow service. It is an open-source tool that programmatically author, schedule, and monitor pipelines, which fits your needs perfectly.
- In a Shared VPC configuration, Cloud Composer resources should be placed in the service project. This provides network isolation while still allowing the Cloud Composer environment to communicate with resources in the host project.
- With Shared VPC, the host project's network (including its subnets and secondary IP ranges) is shared by other service projects, which promotes network peering, and it's compliant with the networking considerations of GKE.

👍 ↩ 🏳 upvoted 1 times

☐ 👤 **ckanaar** 1 year, 7 months ago

That's answer D though.

👍 ↩ 🏳 upvoted 2 times

☐ 👤 **zellck** 2 years, 5 months ago

`Selected Answer: D`

D is the answer.

https://cloud.google.com/composer/docs/how-to/managing/configuring-shared-vpc
Shared VPC enables organizations to establish budgeting and access control boundaries at the project level while allowing for secure and efficient communication using private IPs across those boundaries. In the Shared VPC configuration, Cloud Composer can invoke services hosted in other Google Cloud projects in the same organization without exposing services to the public internet.

👍 ↩ ⚑ upvoted 3 times

⊟ 👤 **unnamed12355** 2 years, 1 month ago

I thought it was C, but after reading docs I realized it is D.
In D case we can have isolation and reduce project complicity(It could be overlapped resources in Host project, and it is harder to restrict composer access for Host project resources)

👍 ↩ ⚑ upvoted 1 times

⊟ 👤 **AzureDP900** 2 years, 4 months ago

Agreed

👍 ↩ ⚑ upvoted 2 times

⊟ 👤 **Oleksandr0501** 2 years ago

agreed to what..

👍 ↩ ⚑ upvoted 1 times

⊟ 👤 **Oleksandr0501** 2 years ago

D it is, as per doc link, provided by users. thx

👍 ↩ ⚑ upvoted 1 times

⊟ 👤 **musumusu** 2 years, 2 months ago

why not option C? if composer in host project it will be easier to connect one or more service project with it.

👍 ↩ ⚑ upvoted 2 times

⊟ 👤 **Atnafu** 2 years, 5 months ago

D
Shared VPC requires that you designate a host project to which networks and subnetworks belong and a service project, which is attached to the host project.
https://cloud.google.com/composer/docs/how-to/managing/configuring-shared-vpc#:~:text=This%20page%20describes,the%20service%20project.

👍 ↩ ⚑ upvoted 2 times

⊟ 👤 **ducc** 2 years, 8 months ago

Selected Answer: D

D according to documentation

Shared VPC requires that you designate a host project to which networks and subnetworks belong and a service project, which is attached to the host project. When Cloud Composer participates in a Shared VPC, the Cloud Composer environment is in the service project.

https://cloud.google.com/composer/docs/how-to/managing/configuring-shared-vpc#set_up_shared_vpc_and_attach_the_service_project

👍 ↩ ⚑ upvoted 2 times