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EXAM ASSOCIATE CLOUD ENGINEER TOPIC 1 QUESTION 36 DISCUSSION

Actual exam question from Google's Associate Cloud Engineer
Question #: 36
Topic #: 1
[All Associate Cloud Engineer Questions]

You have one project called proj-sa where you manage all your service accounts. You want to be able to use a service account from this project to take snapshots of VMs running in another project called proj-vm. What should you do?

A. Download the private key from the service account, and add it to each VMs custom metadata.

B. Download the private key from the service account, and add the private key to each VM's SSH keys.

C. Grant the service account the IAM Role of Compute Storage Admin in the project called proj-vm.

D. When creating the VMs, set the service account's API scope for Compute Engine to read/write.

Show Suggested Answer

by kishoredeena at *June 14, 2020, 9:24 a.m.*

Comments

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jackdbd Highly Voted 3 years, 3 months ago

C is the correct answer.
It took me a while to figure it out because I didn't understand how service accounts work across project. This article made it clear for me. https://gtseres.medium.com/using-service-accounts-across-projects-in-gcp-cf9473fef8f0

You create the service account in proj-sa and take note of the service account email, then you go to proj-vm in IAM > ADD and add the service account's email as new member and give it the Compute Storage Admin role.

upvoted 43 times

JelloMan 2 years, 6 months ago

As of now, service accounts may be impersonated (new-term). AKA, you can create a service account in one project and then impersonate it in others. Essentially, it involves the same steps as what the medium article suggests (create a service account in the principal (main) project and then add the email of the main project to the project you want to impersonate) https://cloud.google.com/iam/docs/impersonating-service-accounts#impersonate-sa-level

upvoted 2 times

SaiSaiA 2 years, 3 months ago

I have tried C, it doesn't work. Also, this refers to a different Principal (user) impersonating a Service Account which is a different case from what is in the question.

upvoted 1 times

kishoredeena Highly Voted 4 years, 4 months ago

Option C is the right one

upvoted 22 times

Captain1212 Most Recent 1 year, 1 month ago

Selected Answer: C

C seems more correct, because you want to use it, you need access for it

upvoted 1 times

sthapit 1 year, 2 months ago

C is the answer

upvoted 1 times

findsidd 1 year, 2 months ago

C is the correct answer.

Compute Storage Admin (roles/compute.storageAdmin) has permissions to create, modify, and delete disks, images, and snapshots.

For example, if your company has someone who manages project images and you don't want them to have the editor role on the project, then grant this role to their account on the project.

The most common way to let an application authenticate as a service account is to attach a service account to the resource running the application. For example, you can attach a service account to a Compute Engine instance so that applications running on that instance can authenticate as the service account. Then, you can grant the service account IAM roles to let the service account—and, by extension, applications on the instance—access Google Cloud resources.

upvoted 1 times

Buruguduystunstugudunstuy 1 year, 8 months ago

Selected Answer: C

Answer C is correct. Grant the service account the IAM Role of Compute Storage Admin in the project called proj-vm.

To take snapshots of VMs running in another project, you need to grant the service account that will take the snapshots the necessary IAM role to perform the action. In this case, granting the service account in the proj-sa project the Compute Storage Admin role in the proj-vm project will allow it to take snapshots of VMs running in that project.

Answers A and B are incorrect because they involve downloading and adding the private key of the service account to each VM, which is not necessary and potentially risky.

Answer D is also incorrect because setting the service account's API scope for Compute Engine to read/write only grants it permission to perform actions on resources within the same project.

https://cloud.google.com/iam/docs/creating-managing-service-accounts

https://cloud.google.com/iam/docs/granting-roles-to-service-accounts

upvoted 5 times

leogor 1 year, 12 months ago

C. Grant the service account the IAM Role of Compute Storage Admin in the project called proj-vm.

upvoted 1 times

hahrae 2 years, 3 months ago

napros 2 years, 2 months ago

Safe to eliminate any options that demand transferring of private keys. NOT SAFE

Hence, C.

upvoted 3 times

theBestStudent 2 years ago

highly agree with this thoughts! transferring private keys is a big no no here.

upvoted 1 times

RanjithK 2 years, 3 months ago

Answer is C

upvoted 1 times

AzureDP900 2 years, 4 months ago

C. is the correct answer

Compute Storage Admin
(roles/compute.storageAdmin)
Permissions to create, modify, and delete disks, images, and snapshots.

For example, if your company has someone who manages project images and you don't want them to have the editor role on the project, then grant this role to their account on the project.

Lowest-level resources where you can grant this role:

Disk
Image
Snapshot Beta

upvoted 4 times

haroldbenites 2 years, 5 months ago

go for C

upvoted 1 times

somenick 2 years, 7 months ago

Selected Answer: C

https://cloud.google.com/compute/docs/access/iam#compute.storageAdmin

upvoted 2 times

RealEL40 2 years, 10 months ago

When a service account is in one project, and it accesses a resource in another project, you usually must enable the API for that resource in both projects. For example, if you have a service account in the project my-service-accounts and a Cloud SQL instance in the project my-application, you must enable the Cloud SQL API in both my-service-accounts and my-application.

upvoted 2 times

shawnkkk 2 years, 11 months ago

C. Grant the service account the IAM Role of Compute Storage Admin in the project called proj-vm.

upvoted 1 times

vishnukumartr 2 years, 11 months ago

C. Grant the service account the IAM Role of Compute Storage Admin in the project called proj-vm.

upvoted 1 times

Jaira1256 2 years, 11 months ago

C is correct

upvoted 1 times

cuongnd 3 years, 3 months ago

C. Compute Storage Admin role has this: compute.snapshots.*

upvoted 4 times

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