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📄 EXAM PROFESSIONAL CLOUD SECURITY ENGINEER TOPIC 1 QUESTION 235 DISCUSSION

Actual exam question from Google's Professional Cloud Security Engineer

Question #: 235

Topic #: 1

[All Professional Cloud Security Engineer Questions]

You are setting up a new Cloud Storage bucket in your environment that is encrypted with a customer managed encryption key (CMEK). The CMEK is stored in Cloud Key Management Service (KMS), in project "prj-a", and the Cloud Storage bucket will use project "prj-b". The key is backed by a Cloud Hardware Security Module (HSM) and resides in the region europe-west3. Your storage bucket will be located in the region europe-west1. When you create the bucket, you cannot access the key, and you need to troubleshoot why.

What has caused the access issue?

    A. A firewall rule prevents the key from being accessible.

    B. Cloud HSM does not support Cloud Storage.

    C. The CMEK is in a different project than the Cloud Storage bucket.

    D. The CMEK is in a different region than the Cloud Storage bucket.

Show Suggested Answer

by 👤 **MisterHairy** at *Nov. 21, 2023, 10:54 p.m.*

Comments

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i_am_robot `Highly Voted` 1 year, 7 months ago

Selected Answer: D

The access issue is caused by the fact that the CMEK is in a different region than the Cloud Storage bucket. According to the Google Cloud documentation, the location of the Cloud KMS key must match the storage location of the resource it is intended to encrypt. Since the CMEK resides in the region europe-west3 and the storage bucket is located in the region europe-west1, this mismatch is the reason why the key cannot be accessed when creating the bucket. Therefore, the correct answer is:
D. The CMEK is in a different region than the Cloud Storage bucket

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MoAk `Most Recent ⏱` 8 months ago

Selected Answer: D

https://cloud.google.com/kms/docs/cmek#when-use-cmek

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Potatoe2023 1 year, 3 months ago

Selected Answer: D

D
https://cloud.google.com/kms/docs/cmek#cmek_integrations

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irmingard_examtopics 1 year, 3 months ago

Selected Answer: D

You must create the Cloud KMS key ring in the same location as the data you intend to encrypt. For example, if your bucket is located in US-EAST1, any key ring used for encrypting objects in that bucket must also be created in US-EAST1. https://cloud.google.com/storage/docs/encryption/customer-managed-keys#restrictions

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Bettoxicity 1 year, 3 months ago

Selected Answer: C

CMEK Project Mismatch: By default, CMEKs can only be accessed by services within the same GCP project where the key resides (prj-a in this case). Your Cloud Storage bucket is in a different project (prj-b).

Why not D?: CMEK Region Disparity: CMEKs can be accessed from any region within GCP, so the difference between europe-west3 (CMEK location) and europe-west1 (bucket location) shouldn't be the primary cause.

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dija123 1 year, 4 months ago

Selected Answer: C

By default, Google Cloud projects operate in isolation. Resources in one project cannot automatically access resources in another project, even within the same region. This security principle prevents unauthorized access to sensitive data or actions.

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NaikMN 1 year, 7 months ago

D
https://cloud.google.com/sql/docs/mysql/cmek

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dija123 1 year, 4 months ago

this link is about sql not Cloud storage, Cloud Storage with CMEK is more flexible regarding regions.

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MisterHairy 1 year, 8 months ago

Selected Answer: D

The correct answer is D. The CMEK is in a different region than the Cloud Storage bucket.

When you use a customer-managed encryption key (CMEK) to secure a Cloud Storage bucket, the key and the bucket must be located in the same region. In this case, the key is in europe-west3 and the bucket is in europe-west1, which is why you're unable to access the key.

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