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Exam Professional Cloud Security Engineer All Questions

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📄 EXAM PROFESSIONAL CLOUD SECURITY ENGINEER TOPIC 1 QUESTION 161 DISCUSSION

Actual exam question from Google's Professional Cloud Security Engineer

Question #: 161

Topic #: 1

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You are implementing data protection by design and in accordance with GDPR requirements. As part of design reviews, you are told that you need to manage the encryption key for a solution that includes workloads for Compute Engine, Google Kubernetes Engine, Cloud Storage, BigQuery, and Pub/Sub. Which option should you choose for this implementation?

- A. Cloud External Key Manager
- B. Customer-managed encryption keys
- C. Customer-supplied encryption keys
- D. Google default encryption

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by [GHOST1985](#) at *Sept. 15, 2022, 7:44 p.m.*

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🗨️ [zelck](#) Highly Voted 2 years, 10 months ago

Selected Answer: B

B is the answer.

https://cloud.google.com/kms/docs/using-other-products#cmek_integrations

https://cloud.google.com/kms/docs/using-other-products#cmek_integrations

CMEK is supported for all the listed google services.

   upvoted 20 times

  **Littleivy** Highly Voted  2 years, 8 months ago

Selected Answer: A

Obviously A is the better answer. Based on the GCP blog [1], you can utilize Cloud External Key Manager (Cloud EKM) to manage customer key easily and fulfill the compliance requirements as Key Access Justifications is already GA. Also, Cloud EKM supports all the services listed in the questions per the reference [2]

[1] <https://cloud.google.com/blog/products/compliance/how-google-cloud-helps-customers-stay-current-with-gdpr>

[2] https://cloud.google.com/kms/docs/ekm#supported_services

   upvoted 12 times

  **gcpengineer** 2 years, 2 months ago

unfortunately not supported for all services




   upvoted 1 times

  **orcnylmz** 2 years ago

All services mentioned in the question are supported by EKM

https://cloud.google.com/kms/docs/ekm#supported_services

   upvoted 3 times

  **KLei** Most Recent  7 months ago

Selected Answer: B

The point is the integration with Google native services: Compute Engine, Google Kubernetes Engine, Cloud Storage, BigQuery, and Pub/Sub

CMEK covers more services than CSEK.

<https://medium.com/google-cloud/data-encryption-techniques-in-google-cloud-gmek-cmek-csek-928d072a1e9d>

"Customer-managed encryption keys (CMEK): This method allows customers to create and manage their own encryption keys in Google Cloud KMS, which are used to encrypt data at rest in Google Cloud Storage, Google BigQuery, Google Cloud SQL, and other services that support CMEK"

"Customer-supplied encryption keys (CSEK): This method allows customers to use their own encryption keys to encrypt data at rest in Google Cloud Storage and Google Compute disks."

   upvoted 1 times

  **KLei** 7 months, 1 week ago

Selected Answer: B

Seems CMEK supports all the Google services in the question

https://cloud.google.com/kms/docs/compatible-services#cmek_integrations

   upvoted 1 times

  **Mr_MIXER007** 11 months ago

Selected Answer: B

B. Customer-managed encryption keys

   upvoted 1 times

  **Roro_Brother** 1 year, 2 months ago




Selected Answer: B

B is the answer.

https://cloud.google.com/kms/docs/using-other-products#cmek_integrations

https://cloud.google.com/kms/docs/using-other-products#cmek_integrations

CMEK is supported for all the listed google services.



   upvoted 2 times

  **Roro_Brother** 1 year, 2 months ago

Selected Answer: B

B. Customer-managed encryption keys

With customer-managed encryption keys (CMEK), you have control over the encryption keys used to protect your data in Google Cloud Platform services such as Compute Engine, Google Kubernetes Engine, Cloud Storage, BigQuery, and Pub/Sub. This ensures that you can manage and control the keys in a way that aligns with GDPR requirements and provides an additional layer of security for your data.

   upvoted 2 times

  **Bettoxicity** 1 year, 3 months ago

Selected Answer: B

B

Why not A?: GCP doesn't offer a service called "Cloud External Key Manager." While there are external key management solutions, they might not integrate seamlessly with all GCP services you're using.

   upvoted 2 times

  **glb2** 1 year, 4 months ago

Selected Answer: B

B. Customer-managed encryption keys

With customer-managed encryption keys (CMEK), you have control over the encryption keys used to protect your data in Google Cloud Platform services such as Compute Engine, Google Kubernetes Engine, Cloud Storage, BigQuery, and Pub/Sub. This ensures that you can manage and control the keys in a way that aligns with GDPR requirements and provides an additional layer of security for your data.



   upvoted 1 times

  **dija123** 1 year, 4 months ago

Selected Answer: B

All mentioned services are supported by CMEK

   upvoted 1 times

  **Nachtwaker** 1 year, 4 months ago

Selected Answer: B

A or B, where B does not require additional assets/resources and thus (sounds like it would be) cheaper

   upvoted 3 times

  **b6f53d8** 1 year, 6 months ago

I work with banks in Eu, they are using CMEK in general and it is GDPR compliant - B

   upvoted 2 times

  **hakunamatataa** 1 year, 10 months ago

Selected Answer: A

With my current client in Europe, where GDPR is mandate, we are using EKM.

   upvoted 3 times

  **[Removed]** 2 years ago

Selected Answer: A

Seems to be EKM in conjunction with CMEK to support all the required services. However it's EKM specifically that enables customers to store keys in europe and enforce various controls over their keys as required by GDPR.

<https://cloud.google.com/blog/products/compliance/how-google-cloud-helps-customers-stay-current-with-gdpr>

https://cloud.google.com/kms/docs/using-other-products#cmek_integrations

   upvoted 4 times

  **TNT87** 2 years, 3 months ago

Selected Answer: B

Cloud External Key Manager (option A) is an option for customers who require full control over their encryption keys while leveraging Google Cloud's Key Management Service. However, this option is generally not required for GDPR compliance.

   upvoted 3 times

  **TNT87** 2 years, 3 months ago

https://cloud.google.com/kms/docs/compatible-services#cmek_integrations

   upvoted 1 times

  **alleinallein** 2 years, 3 months ago

Selected Answer: A

EKM is GDPR compliant

   upvoted 1 times

  **Examster1** 2 years, 5 months ago

Answer is A and please read the docs. Cloud EKM is GDPR compliant and does support all the services listed. Where is the confusion here?

   upvoted 4 times

  **gcpengineer** 2 years, 2 months ago

It doesn't

it doesn't



upvoted 1 times

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