Google Discussions

Exam Professional Cloud Security Engineer All Questions

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EXAM PROFESSIONAL CLOUD SECURITY ENGINEER TOPIC 1 QUESTION 76 DISCUSSION

Actual exam question from Google's Professional Cloud Security Engineer
Question #: 76
Topic #: 1
[All Professional Cloud Security Engineer Questions]

Your company is storing sensitive data in Cloud Storage. You want a key generated on-premises to be used in the encryption process.
What should you do?

A. Use the Cloud Key Management Service to manage a data encryption key (DEK).

B. Use the Cloud Key Management Service to manage a key encryption key (KEK).

C. Use customer-supplied encryption keys to manage the data encryption key (DEK).

D. Use customer-supplied encryption keys to manage the key encryption key (KEK).

Show Suggested Answer

by Raushanr at *Sept. 18, 2020, 5:41 a.m.*

Comments

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HateMicrosoft Highly Voted 4 years, 4 months ago
The anwser is:C
This is a Customer-supplied encryption keys (CSEK).

This is a Customer-supplied encryption keys (CSEK).
We generate our own encryption key and manage it on-premises.
A KEK never leaves Cloud KMS.There is no KEK or KMS on-premises.

Encryption at rest by default, with various key management options
https://cloud.google.com/security/encryption-at-rest

upvoted 33 times

sudarchary Highly Voted 3 years, 5 months ago

Selected Answer: D

Reference Links:
https://cloud.google.com/kms/docs/envelope-encryption
https://cloud.google.com/security/encryption-at-rest/customer-supplied-encryption-keys

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1209apl Most Recent 3 months ago

Selected Answer: C

Answer is C: Customer-Supplied DEK.

upvoted 1 times

brpjp 10 months, 1 week ago

Correct Answer -D - CSEK provided by the customer, Key encryption key (KEK) for chunk keys. Wraps the chunk keys. As per https://cloud.google.com/docs/security/encryption/customer-supplied-encryption-keys#cloud_storage. Some of us have provided correct link but not interpreted correctly and selected answer C, which is not correct. A & B not correct because it is CSEK.

upvoted 2 times

Mr_MIXER007 11 months ago

Selected Answer: C

The anwser is:C

upvoted 1 times

3d9563b 1 year ago

Selected Answer: C

By using customer-supplied encryption keys (CSEK) to manage the data encryption key (DEK), you can ensure that the encryption process utilizes a key that was generated and controlled on-premises, meeting your security and compliance requirements.

upvoted 1 times

salamKvelas 1 year, 2 months ago

`customer-supplied encryption keys` == `DEK`, so the only answer that makes sense is A use KMS for KEK to wrap the DEK

upvoted 1 times

shanwford 1 year, 2 months ago

Selected Answer: C

Can't be A/B because "key generated on-premises" requirement. KEK ist KMS specific.
Why (C):
https://cloud.google.com/docs/security/encryption/customer-supplied-encryption-keys#cloud_storage --> "The raw CSEK is used to unwrap wrapped chunk keys, to create raw chunk keys in memory. These are used to decrypt data chunks stored in the storage systems. These keys are used as the data encryption keys (DEK) in Google Cloud Storage for your data."

upvoted 1 times

madcloud32 1 year, 4 months ago

Selected Answer: C

C is answer. DEK

upvoted 1 times

mjcts 1 year, 5 months ago

Selected Answer: C

Customer-supplied because it is generated on prem. And we can only talk about DEK. KEK is always managed by Google

upvoted 1 times

rsamant 1 year, 7 months ago

D , CSEK is used for KEK , DEK is always generated by Google as different chunks use different DEK

Raw CSEK Storage system memory Provided by the customer.
Key encryption key (KEK) for chunk keys.
Wraps the chunk keys. Customer-requested operation (e.g., insertObject or getObject) is complete

https://cloud.google.com/docs/security/encryption/customer-supplied-encryption-keys

upvoted 3 times

rottzy 1 year, 10 months ago

C, KEK is google managed

upvoted 1 times

Xoxoo 1 year, 10 months ago

Selected Answer: C

To use a key generated on-premises for encrypting data in Cloud Storage, you should:

C. Use customer-supplied encryption keys to manage the data encryption key (DEK).

With customer-supplied encryption keys (CSEK), you can provide your own encryption keys, generated and managed on-premises, to encrypt and decrypt data in Cloud Storage. The data encryption key (DEK) is the key used to encrypt the actual data, and by using CSEK, you can manage this key with your own on-premises key management system.

upvoted 1 times

Xoxoo 1 year, 10 months ago

Options A and B involve using Google Cloud's Key Management Service (KMS), which generates and manages encryption keys within Google Cloud, not on-premises.

Option D is not a common practice and is not directly supported for encrypting data in Cloud Storage.

upvoted 2 times

ananta93 1 year, 10 months ago

Selected Answer: C

The Answer is C. The raw CSEK is used to unwrap wrapped chunk keys, to create raw chunk keys in memory. These are used to decrypt data chunks stored in the storage systems. These keys are used as the data encryption keys (DEK) in Google Cloud Storage for your data.

https://cloud.google.com/docs/security/encryption/customer-supplied-encryption-keys#cloud_storage

upvoted 2 times

desertlotus1211 1 year, 11 months ago

Answer is C:
https://cloud.google.com/docs/security/encryption/customer-supplied-encryption-keys#cloud_storage

If you look at the ENTIRE process - it CSEK is used to create the DEK (final product) for decryption if its data...

upvoted 3 times

RuchiMishra 1 year, 11 months ago

Selected Answer: D

https://cloud.google.com/docs/security/encryption/customer-supplied-encryption-keys#cloud_storage

upvoted 2 times

civilizador 1 year, 11 months ago

C . The answer is C and I don't understand why some people here rewriting google official doc here and saying answer is D?? Here is the link please read it carefully this is not an Instagramm feed. Please when you reading 3 seconds and come here you start confusing many people . Here is link SPECIFICALLY FOR CLOUD STORAGE .
https://cloud.google.com/docs/security/encryption/customer-supplied-encryption-keys#cloud_storage

upvoted 3 times

MaryKey 1 year, 10 months ago

I'm confused here - the article on Google says literally:
"Raw CSEK - Provided by the customer.
Key encryption key (KEK) for chunk keys.
Wraps the chunk keys".
In other words - KEK, not DEK

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