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Exam Professional Cloud Security Engineer All Questions

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EXAM PROFESSIONAL CLOUD SECURITY ENGINEER TOPIC 1 QUESTION 74 DISCUSSION

Actual exam question from Google's Professional Cloud Security Engineer

Question #: 74

Topic #: 1

[All Professional Cloud Security Engineer Questions]

What are the steps to encrypt data using envelope encryption?

- A.
- ⇒ Generate a data encryption key (DEK) locally.
- Use a key encryption key (KEK) to wrap the DEK.
- Encrypt data with the KEK.
- Store the encrypted data and the wrapped KEK.
- B.
- ⇒ Generate a key encryption key (KEK) locally.
- Use the KEK to generate a data encryption key (DEK).
- Encrypt data with the DEK.
- Store the encrypted data and the wrapped DEK.
- C.
- Generate a data encryption key (DEK) locally.
- ⇒ Encrypt data with the DEK.
- ⇒ Use a key encryption key (KEK) to wrap the DEK.
- Store the encrypted data and the wrapped DEK.
- D.
- ⇒ Generate a key encryption key (KEK) locally.
- Generate a data encryption key (DEK) locally.
- Encrypt data with the KEK.

Store the encrypted data and the wrapped DEK.

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Show Suggested Answer

by A Tabayashi at April 29, 2022, 2:53 a.m.

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☐ ♣ Tabayashi Highly Voted ♣ 3 years, 3 months ago Answer is (C).

The process of encrypting data is to generate a DEK locally, encrypt data with the DEK, use a KEK to wrap the DEK, and then store the encrypted data and the wrapped DEK. The KEK never leaves Cloud KMS.

https://cloud.google.com/kms/docs/envelope-encryption#how_to_encrypt_data_using_envelope_encryption

upvoted 19 times

■ AzureDP900 2 years, 8 months ago

C is right

upvoted 3 times

☐ ▲ Mr_MIXER007 Most Recent ② 11 months ago

Answer is (C).

upvoted 1 times

e desertlotus1211 1 year, 11 months ago

Answer is C;

https://cloud.google.com/kms/docs/envelope-encryption#:~:text=decrypt%20data%20directly.-,How%20to%20encrypt%20data%20using%20envelope%20encryption,data%20and%20the%20wrapped%20DEK.

upvoted 3 times

■ Appsec977 2 years, 2 months ago

C is the correct solution because KEK is never generated on the client's side, KEK is stored in GCP.

upvoted 4 times

■ AwesomeGCP 2 years, 9 months ago

Answer - C is correct.

https://cloud.google.com/kms/docs/envelope-encryption#how_to_encrypt_data_using_envelope_encryption

upvoted 3 times

[Removed] 2 years, 10 months ago

C it is

upvoted 3 times



