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EXAM PROFESSIONAL DATA ENGINEER TOPIC 1 QUESTION 238 DISCUSSION

Actual exam question from Google's Professional Data Engineer

Question #: 238

Topic #: 1

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You want to encrypt the customer data stored in BigQuery. You need to implement per-user crypto-deletion on data stored in your tables. You want to adopt native features in Google Cloud to avoid custom solutions. What should you do?

- A. Implement Authenticated Encryption with Associated Data (AEAD) BigQuery functions while storing your data in BigQuery.
- B. Create a customer-managed encryption key (CMEK) in Cloud KMS. Associate the key to the table while creating the table.
- C. Create a customer-managed encryption key (CMEK) in Cloud KMS. Use the key to encrypt data before storing in BigQuery.
- D. Encrypt your data during ingestion by using a cryptographic library supported by your ETL pipeline.

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by [scaenruy](#) at Jan. 3, 2024, 1:46 p.m.

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Selected Answer: A

- AEAD cryptographic functions in BigQuery allow for encryption and decryption of data at the column level.
- You can encrypt specific data fields using a unique key per user and manage these keys outside of BigQuery (for example).

You can encrypt specific data rows using a unique key per user and manage these keys outside of BigQuery (for example, in your application or using a key management system).

- By "deleting" or revoking access to the key for a specific user, you effectively make their data unreadable, achieving crypto-deletion.

- This method provides fine-grained encryption control but requires careful key management and integration with your applications.

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Selected Answer: A

<https://cloud.google.com/bigquery/docs/aead-encryption-concepts>

https://cloud.google.com/bigquery/docs/reference/standard-sql/aead_encryption_functions

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🗄️ 👤 **scaenruy** 10 months ago

Selected Answer: A

A.

Implement Authenticated Encryption with Associated Data (AEAD) BigQuery functions while storing your data in BigQuery.

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