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Exam Professional Cloud Security Engineer All Questions

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EXAM PROFESSIONAL CLOUD SECURITY ENGINEER TOPIC 1 QUESTION 183 DISCUSSION

Actual exam question from Google's Professional Cloud Security Engineer
Question #: 183
Topic #: 1
[All Professional Cloud Security Engineer Questions]

Your company conducts clinical trials and needs to analyze the results of a recent study that are stored in BigQuery. The interval when the medicine was taken contains start and stop dates. The interval data is critical to the analysis, but specific dates may identify a particular batch and introduce bias. You need to obfuscate the start and end dates for each row and preserve the interval data.

What should you do?

A. Use date shifting with the context set to the unique ID of the test subject.

B. Extract the date using TimePartConfig from each date field and append a random month and year.

C. Use bucketing to shift values to a predetermined date based on the initial value.

D. Use the FFX mode of format preserving encryption (FPE) and maintain data consistency.

Show Suggested Answer

by Sanjana2020 at *Aug. 2, 2023, 9:14 p.m.*

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i_am_robot 1 year, 1 month ago

Selected Answer: A

The best option would be A. Use date shifting with the context set to the unique ID of the test subject.

Date shifting is a technique used to obfuscate date data by shifting all dates in a dataset by a random number of days, while preserving the intervals between the dates. By setting the context to the unique ID of the test subject, you ensure that the same random shift is applied to all dates for a given test subject, preserving the interval data. This method effectively obfuscates the specific dates, reducing the risk of bias, while still allowing for meaningful analysis of the data.

upvoted 2 times

Xoxoo 1 year, 4 months ago

Selected Answer: A

Option A and D works, but the focus here is to preserve the interval data.

So option A is more suited in this case.

"Date shifting techniques randomly shift a set of dates but preserve the sequence and duration of a period of time. Shifting dates is usually done in context to an individual or an entity. That is, each individual's dates are shifted by an amount of time that is unique to that individual."

upvoted 4 times

cyberpunk21 1 year, 5 months ago

Selected Answer: A

Option A is good

upvoted 2 times

a190d62 1 year, 5 months ago

Selected Answer: A

A - date shifting. Bucketing is not an option here, because we would lose the order. Encryption is overpowered here

https://cloud.google.com/dlp/docs/concepts-date-shifting

upvoted 3 times

Sanjana2020 1 year, 5 months ago

A- date shifting.

upvoted 1 times