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Exam Professional Data Engineer All Questions

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📄 **EXAM PROFESSIONAL DATA ENGINEER TOPIC 1 QUESTION 64 DISCUSSION**

Actual exam question from Google's Professional Data Engineer

Question #: 64

Topic #: 1

[All Professional Data Engineer Questions]

You are integrating one of your internal IT applications and Google BigQuery, so users can query BigQuery from the application's interface. You do not want individual users to authenticate to BigQuery and you do not want to give them access to the dataset. You need to securely access BigQuery from your IT application. What should you do?

   A. Create groups for your users and give those groups access to the dataset

   B. Integrate with a single sign-on (SSO) platform, and pass each user's credentials along with the query request

   C. Create a service account and grant dataset access to that account. Use the service account's private key to access the dataset

   D. Create a dummy user and grant dataset access to that user. Store the username and password for that user in a file on the files system, and use those credentials to access the BigQuery dataset

Show Suggested Answer

by [deleted] at *March 21, 2020, 3:26 p.m.*

Comments

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⊟ 👤 **[Removed]** `Highly Voted 👍` 3 years, 7 months ago

Correct: C

👍 ↩ 🚩 upvoted 27 times

⊟ 👤 **[Removed]** `Highly Voted 👍` 3 years, 7 months ago

Answer: C

Description: Service Account are best option when granting access from tools/appllications

👍 ↩ 🚩 upvoted 16 times

⊟ 👤 **samdhimal** `Most Recent ⊘` 9 months, 2 weeks ago

C. Create a service account and grant dataset access to that account. Use the service account's private key to access the dataset.

Creating a service account and granting dataset access to that account is the most secure way to access BigQuery from an IT application. Service accounts are designed for use in automated systems and do not require user interaction, eliminating the need for individual users to authenticate to BigQuery. Additionally, by using the private key of the service account to access the dataset, you can ensure that the authentication process is secure and that only authorized users have access to the data.

👍 ↩ 🚩 upvoted 4 times

   ⊟ 👤 **samdhimal** 9 months, 2 weeks ago

   Option A: Create groups for your users and give those groups access to the dataset, is not the best option because it still requires users to authenticate to BigQuery

   Option B: Integrate with a single sign-on (SSO) platform, and pass each user's credentials along with the query request is not the best option because it still requires users to authenticate to BigQuery.

   Option D: Create a dummy user and grant dataset access to that user. Store the username and password for that user in a file on the files system, and use those credentials to access the BigQuery dataset is not a secure option because it involves storing sensitive information in a file on the file system, which can be easily accessed by unauthorized users.

   👍 ↩ 🚩 upvoted 4 times

⊟ 👤 **DGames** 10 months, 3 weeks ago

`Selected Answer: C`

Service account approach is secure in GCP to communicate with between service or application

👍 ↩ 🚩 upvoted 1 times

⊟ 👤 **NicolasN** 12 months ago

`Selected Answer: C`

[C]
The reason in https://cloud.google.com/bigquery/docs/data-governance#identity
"Users of BigQuery might be humans, but they might also be nonhuman applications that communicate using a BigQuery client library or the REST API. These applications should identify themselves using a service account, the special type of Google identity intended to represent a nonhuman user."

👍 ↩ 🚩 upvoted 1 times

⊟ 👤 **Tanzu** 1 year, 8 months ago

`Selected Answer: C`

such kind of questions are always service account oriented. and sa can be used as a user ..not just for machine2machine

users may or may not enter their credentials app login window. that's not main point by the way

👍 ↩ 🚩 upvoted 2 times

⊟ 👤 **rcruz** 1 year, 9 months ago

`Selected Answer: C`

Correct: C

👍 ↩ 🚩 upvoted 2 times

⊟ 👤 **anji007** 2 years ago

Ans: C

👍 ↩ 🚩 upvoted 2 times

⊟ 👤 **daghayeghi** 2 years, 7 months ago

C:
It says "do not want individual users to authenticate to BigQuery and you do not want to give them access to the dataset", then C is the best choice.

👍 ↩ 🚩 upvoted 3 times

⊟ 👤 **ave4000** 2 years, 12 months ago

Granting access to the app through a service account would mean all of the users that access the app have access to the

BQ. Question was to filter it out, so I believe each user would have to be added to a group that does or doesn't have access to the dataset.

👍 ↩ 🚩 upvoted 4 times

☐ 👤 squishy_fishy 2 years ago
The answer is C.
When access data through application, Google recommendation is using service account.

👍 ↩ 🚩 upvoted 1 times

☐ 👤 kavs 2 years, 11 months ago
Yes A seems to be right

👍 ↩ 🚩 upvoted 4 times

☐ 👤 kavs 2 years, 11 months ago
It says individually don't want to authorise service account could be right too

👍 ↩ 🚩 upvoted 3 times

☐ 👤 Ankush_j 3 years, 1 month ago
Ans is C, Service account is best for secure data

👍 ↩ 🚩 upvoted 3 times

☐ 👤 haroldbenites 3 years, 2 months ago
C is correct

👍 ↩ 🚩 upvoted 3 times

☐ 👤 Rajuuu 3 years, 4 months ago
Correct C.

👍 ↩ 🚩 upvoted 4 times