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Exam Associate Cloud Engineer All Questions

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EXAM ASSOCIATE CLOUD ENGINEER TOPIC 1 QUESTION 102 DISCUSSION

Actual exam question from Google's Associate Cloud Engineer

Question #: 102

Topic #: 1

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Your organization needs to grant users access to query datasets in BigQuery but prevent them from accidentally deleting the datasets. You want a solution that follows Google-recommended practices. What should you do?

- A. Add users to roles/bigquery user role only, instead of roles/bigquery dataOwner.
- B. Add users to roles/bigquery dataEditor role only, instead of roles/bigquery dataOwner.
- C. Create a custom role by removing delete permissions, and add users to that role only.
- D. Create a custom role by removing delete permissions. Add users to the group, and then add the group to the custom role.


Show Suggested Answer

by  **SIX** at June 6, 2020, 4:39 p.m.

Comments

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  **someoneinthecloud** Highly Voted  4 years, 3 months ago

I believe the key part is the "following Google Best Practices" phrase.

A - Works, but doesn't follow GCP best practices

B - Doesn't work as the role grants permission to delete datasets

C - Works, but is more complicated than A and doesn't follow Google best practices

D - Correct, more complicated than A, but it follows Google Best Practices.

3 upvoted 72 times

2 **TAvenger** 3 years, 7 months ago

Read description carefully "prevent from accidentally deleting the datasets". Not tables, datasets! option B does not allow to delete datasets either.

Check dataset permissions in the roles/bigquery.dataEditor:

bigquery.datasets.create

bigquery.datasets.get

bigquery.datasets.getIamPolicy

bigquery.datasets.updateTag

You CANNOT delete dataset with option "B"

3 upvoted 11 times

2 **Bableves** 2 years, 6 months ago

Netiher with A.

3 upvoted 1 times

2 **afooh** 2 years, 2 months ago

But it means you will have to add the users one by one which doesn't follow Google best practices...

3 upvoted 3 times

2 **YuvarajK** 3 years, 4 months ago

I think A is the Answer and it follow GCP best practices.

<https://cloud.google.com/iam/docs/understanding-roles#bigquery-roles>

We do have the role - BigQuery User which does the below permissions

When applied to a project, this role also provides the ability to run jobs, including queries, within the project.

bigquery.datasets.create

bigquery.datasets.get

bigquery.datasets.getIamPolicy

3 upvoted 12 times

2 **Abhi00754** 1 year, 6 months ago

bigquery.datasets.create allows the creation of new datasets within the project; the creator is granted the BigQuery Data Owner role (roles/bigquery.dataOwner) on these new datasets so he can delete these created datasets

3 upvoted 4 times

2 **Abhi00754** 1 year, 6 months ago

D seems correct

3 upvoted 4 times

2 **kyo** 3 years, 3 months ago

I don't think A works properly.

roles/bigquery.user has bigquery.datasets.create. And the documentation states:

> Additional, allows the creation of new datasets within the project; the creator is granted the BigQuery Data Owner role (roles/bigquery.dataOwner) on these new datasets.

If bigquery.user creates a new dataset, it's likely that bigquery.user will get permission to delete that dataset. This means that bigquery.user may have permission to delete data.

<https://cloud.google.com/bigquery/docs/access-control>

3 upvoted 13 times

2 **Bossam** 2 years, 2 months ago

See the question carefully "accidentally deleting the datasets" it is saying not to delete "the" datasets which means original dataset which existed before his creation .So answer is A.

3 upvoted 1 times

2 **Zina12** 1 year, 10 months ago

The only way a user can accidentally delete a dataset is if they have the delete permission anyway. So brvinod and kyo's points still stand

3 upvoted 2 times

2 **brvinod** 2 years, 8 months ago

A bigquery.user will get a "data owner" role on the datasets he creates. That means he can delete those data sets he created. In that sense A fails to that extent.

3 upvoted 5 times

ESP_SAP Highly Voted 4 years, 2 months ago

Correct Answer is (D):

The proper answer regarding to bigquery roles is the listed in the options, the proper rol that resolve this requirement is:
roles/bigquery.dataViewer
https://cloud.google.com/bigquery/docs/access-control#custom_roles

on the other hand, the question explicitly is asking to use the GCP best practices on IAM :
GCP Best Practices explain clearly these rules:

Policy management

- ☐ Set organization-level IAM policies to grant access to all projects in your organization.
- ☐ Grant roles to a Google group instead of individual users when possible. It is easier to add members to and remove members from a Google group instead of updating an IAM policy to add or remove users.
- ☐ If you need to grant multiple roles to allow a particular task, create a Google group, grant the roles to that group, and then add users to that group.

https://cloud.google.com/iam/docs/using-iam-securely#policy_management

3 upvoted 57 times

JackGlemins 3 years, 8 months ago

Other best practice is use predefine roles over custom roles. Maybe A is correct

3 upvoted 8 times

JackGlemins 3 years, 8 months ago

I correct myself: <https://cloud.google.com/iam/docs/understanding-custom-roles>

Key Point: Custom roles enable you to enforce the principle of least privilege, ensuring that the user and service accounts in your organization have only the permissions essential to performing their intended functions.

3 upvoted 6 times

prashuG 4 years, 1 month ago

Answer is A: roles/bigquery.user is a BigQuery User role which when applied to a project provides the ability to run jobs, including queries, within the project. A member with this role can enumerate their own jobs, cancel their own jobs, and enumerate datasets within a project.

Ref: <https://cloud.google.com/iam/docs/understanding-roles#bigquery-roles>

3 upvoted 5 times

j1c4b 3 years, 6 months ago

you can create data set with bigquery.user role because it has bigquery.datasets.create permissions. And if a user has bigquery.datasets.create permissions, when that user creates a dataset, they are granted bigquery.dataOwner access to it. So A is NOT a choice

3 upvoted 5 times

Anji14 Most Recent 3 weeks, 5 days ago

A is correct because the key point is.. users can query the dataset but not delete. For querying, jobs create role required which comes under bigquery user role

3 upvoted 1 times

Timfdklfajlkdsjlakf 1 month, 3 weeks ago

Selected Answer: D

D. follows Google Best Practice. Others do not or are flat out wrong.

3 upvoted 1 times

omunoz 5 months, 1 week ago

Selected Answer: D

GCP Best Practices is to create a group of Users and assign it a custom role with the required permissions (least privilege).

3 upvoted 1 times

rahulsahni849 7 months, 2 weeks ago

Selected Answer: A

A IS THE ANSWER

3 upvoted 1 times

blackBeard33 7 months, 3 weeks ago

Selected Answer: D

D is solves the problem and follow best practices. With A you will be able to delete data sets you create.

3 upvoted 1 times

Aks14 8 months ago

Selected Answer: A

You can create a custom role at the project or organization level. Since users are added to role, it should be A.
<https://cloud.google.com/iam/docs/creating-custom-roles>

   upvoted 1 times

  **leoalvarezh** 8 months, 1 week ago


Selected Answer: A

I think the right answer is A due to a predefined valid role. I mean that bigquery.user role is valid so it's not needed to create a custom role. bigquery.user role can't delete datasets created by anyone.

<https://cloud.google.com/iam/docs/understanding-roles#bigquery.user>

bigquery.datasets.delete
bigquery.datasets.deleteTagBinding



   upvoted 1 times

  **leoalvarezh** 8 months, 1 week ago

I think the right answer is A due to a predefined valid role. I mean that bigquery.user role is valid so it's not needed to create a custom role. bigquery.user role can't delete datasets.

<https://cloud.google.com/iam/docs/understanding-roles#bigquery.user>

   upvoted 1 times

  **kuracpalac** 8 months, 1 week ago



Selected Answer: A

I think it's A for a couple of reasons.

1. you don't need to create a custom role if there is already one there, and it's Google best practice to ALWAYS use their roles, not create new ones unless absolutely necessary, which is very few cases and I'd be surprised if they'd put a Q in there that would actually .



2. the "roles/bigquery.user" role already allows for bigquery.datasets.create, bigquery.datasets.get, bigquery.datasets.getIamPolicy, which this Q is asking for.

   upvoted 1 times

  **bubidubi** 8 months, 1 week ago

I have no idea, but I think it's D as you add users to group first, then to a role, which is Google best practice, but not sure about custom role in the first place.

   upvoted 1 times

  **kelliot** 10 months, 4 weeks ago

Selected Answer: A

I go with A and not D as best practices is to use predefined roles.

   upvoted 2 times

  **nathanBK** 11 months ago

Selected Answer: C

The correct answer is C. Create a custom role by removing delete permissions, and add users to that role only.

This is the recommended approach by Google, as it provides a granular level of control over user permissions. By creating a custom role that only allows users to query datasets, you can ensure that they do not have the ability to accidentally delete them.

   upvoted 1 times

  **BAofBK** 11 months, 2 weeks ago

The correct answer is D

   upvoted 1 times

  **VijKall** 11 months, 3 weeks ago

Selected Answer: A

I will go with A and not D as best practices is to use predefined roles.

If the question had "least privilege" then answer would have been D.

   upvoted 1 times

  **ekta25** 1 year ago

A. Add users to roles/bigquery user role only, instead of roles/bigquery dataOwner.

   upvoted 1 times

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