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EXAM PROFESSIONAL DATA ENGINEER TOPIC 1 QUESTION 264 DISCUSSION

Actual exam question from Google's Professional Data Engineer

Question #: 264

Topic #: 1

[All Professional Data Engineer Questions]

You are running your BigQuery project in the on-demand billing model and are executing a change data capture (CDC) process that ingests data. The CDC process loads 1 GB of data every 10 minutes into a temporary table, and then performs a merge into a 10 TB target table. This process is very scan intensive and you want to explore options to enable a predictable cost model. You need to create a BigQuery reservation based on utilization information gathered from BigQuery Monitoring and apply the reservation to the CDC process. What should you do?

- A. Create a BigQuery reservation for the dataset.
- B. Create a BigQuery reservation for the job.
- C. Create a BigQuery reservation for the service account running the job.
- D. Create a BigQuery reservation for the project.

Show Suggested Answer

by 8 scaenruy at Jan. 5, 2024, 2:59 a.m.

Comments

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Matt_108 Highly Voted 1 1 year, 3 months ago
Selected Answer: D
Option D, reservation can't be applied to resources lower than projects (only to Org, folders or projects) • projects (only to Org, folders or projects)
AllenChen123 1 year, 3 months ago
Seems correct. https://cloud.google.com/bigquery/docs/reservations-intro#understand_workload_management upvoted 6 times
å task_7 Highly Voted ₺ 1 year, 3 months ago
Selected Answer: B
Reserve assignments
To use the slot capacity you purchased, assign projects, folders, or organizations to a reservation. When a job in a project runs, it uses slots from the assigned reservation. Resources can inherit roles from their parents in the resource hierarchy.
Even if a project is not assigned to a reservation, it inherits the assignment from the parent folder or organization, if any. If a
project does not have an assigned or inherited reservation, the job uses on-demand pricing. For more information about the resource hierarchy, see Organizing BigQuery Resources .
upvoted 7 times
□ ♣ Positron75 5 months, 2 weeks ago
The first sentence of that text already points towards D, not B. You can't assign jobs to a reservation, only projects, folders
or organizations. property of the control of the
upvoted 2 times
apoio.certificacoes.closer 4 months, 1 week ago
Best that could be done is a specify this a batch job, but the slot capacity is still at the project level. •• Pupvoted 1 times
desertiotus1211 Most Recent ② 1 month, 1 week ago
Selected Answer: C
Answer C provides the granularity you need. Answer D is for the entire project however the question ONLY wants it for the CDC process - so service account is better.
In BigQuery, reservations are assigned to "assignments", which can be:
Project
Folder
Organization
Service account
pupoted 1 times
♣ m_a_p_s 4 months, 3 weeks ago
Selected Answer: D
"When you create commitments and reservations, they are associated with a Google Cloud project." - https://cloud.google.com/bigquery/docs/reservations-intro#admin-project
upvoted 1 times
Selected Answer: D
https://cloud.google.com/bigquery/docs/reservations-intro#assignments
upvoted 3 times
SamuelTsch 6 months, 1 week ago
Option B provides a more granularity solution
provides a more grandianty solution provides a more grandianty solution provides a more grandianty solution
♣ viciousjpjp 8 months, 3 weeks ago
Selected Answer: B

The correct answer is B. Create a BigQuery reservation at the job level.

Create a BigQuery reservation at the job level: This is the most suitable option. By creating a job-level reservation, you can allocate resources specifically to the CDC process and improve the accuracy of cost forecasting.

Steps to create and apply a BigQuery reservation:

Identify the job: Clearly identify the job that executes the CDC process.

Create a reservation: Use the BigQuery console or API to create a reservation, specifying the job's label, query text, and other details.

Apply the reservation: Assign the created reservation to the job that executes the CDC process.

upvoted 2 times

Positron75 5 months, 2 weeks ago

Jobs cannot be assigned to a reservation. You should read the documentation instead of relying on AI answers which are wrong half the time.

https://cloud.google.com/bigquery/docs/reservations-intro#understand_workload_management

upvoted 1 times

Positron75 5 months, 2 weeks ago

Sorry, this is the actual link: https://cloud.google.com/bigquery/docs/reservations-intro#assignments

upvoted 1 times

■ meh_33 8 months, 4 weeks ago

Are these questions really useful andd coming in GDE Exam? Anyone appeared recently and passed?

upvoted 1 times

Anudeep58 11 months, 3 weeks ago

Selected Answer: D

https://cloud.google.com/blog/products/data-analytics/manage-bigquery-costs-with-custom-quotas.

Quotas can be applied on Project or User Level

upvoted 3 times

🗖 🏜 f74ca0c 11 months, 3 weeks ago

Selected Answer: D

D- choose the correct project and apply the task type background:https://cloud.google.com/bigquery/docs/reservations-intro? hl=fr#assignments

upvoted 3 times

■ JyoGCP 1 year, 2 months ago

Selected Answer: D

Option D

upvoted 1 times

□ ♣ GCP001 1 year, 3 months ago

D.

Reservation is on project, folder or organisation level.

upvoted 3 times

🖃 🏜 raaad 1 year, 4 months ago

Selected Answer: D

C or D ??

Option C (service account) allows you to target the reservation specifically to the CDC process or any other jobs run by that service account. This is particularly useful if you have multiple processes running in the project with different performance or cost requirements.

Option D (project) applies the reservation across all jobs in the project, which is a broader approach. If the CDC process is the primary or sole job running in the project and you want all jobs to share the same reservation, then this option might be more straightforward.

upvoted 3 times

🖃 🏜 scaenruy 1 year, 4 months ago

Selected Answer: D

D. Create a BigQuery reservation for the project.

upvoted 1 times

