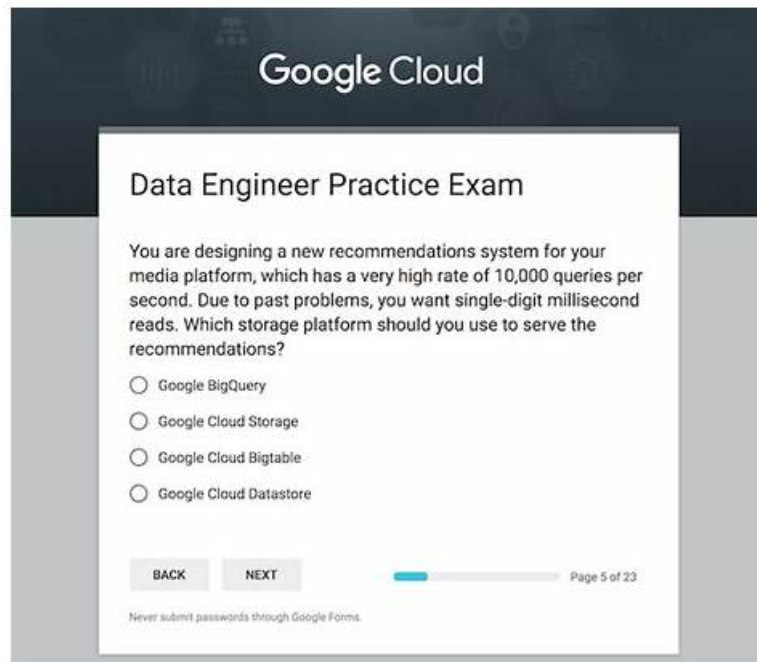


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## Google Certified Professional Data Engineer Exam Sample Questions (Q57-Q62):

### NEW QUESTION # 57

When running a pipeline that has a BigQuery source, on your local machine, you continue to get permission denied errors. What could be the reason for that?

- A. Pipelines cannot be run locally
- B. You are missing gcloud on your machine
- C. BigQuery cannot be accessed from local machines
- D. Your gcloud does not have access to the BigQuery resources

**Answer: D**

Explanation:

When reading from a Dataflow source or writing to a Dataflow sink using DirectPipelineRunner, the Cloud Platform account that you configured with the gcloud executable will need access to the corresponding source/sink Reference:

<https://cloud.google.com/dataflow/java-sdk/JavaDoc/com/google/cloud/dataflow/sdk/runners/DirectPipelineRunner>

### NEW QUESTION # 58

You have designed an Apache Beam processing pipeline that reads from a Pub/Sub topic. The topic has a message retention duration of one day, and writes to a Cloud Storage bucket. You need to select a bucket location and processing strategy to prevent data loss in case of a regional outage with an RPO of 15 minutes. What should you do?

- A. 1. Use a dual-region Cloud Storage bucket.  
2. Monitor Dataflow metrics with Cloud Monitoring to determine when an outage occurs  
3 Seek the subscription back in time by 15 minutes to recover the acknowledged messages  
4 Start the Dataflow job in a secondary region
- B. 1 Use a regional Cloud Storage bucket  
2 Monitor Dataflow metrics with Cloud Monitoring to determine when an outage occurs  
3 Seek the subscription back in time by one day to recover the acknowledged messages  
4 Start the Dataflow job in a secondary region and write in a bucket in the same region
- C. 1. Use a dual-region Cloud Storage bucket with turbo replication enabled  
2 Monitor Dataflow metrics with Cloud Monitoring to determine when an outage occurs  
3 Seek the subscription back in time by 60 minutes to recover the acknowledged messages  
4 Start the Dataflow job in a secondary region.
- D. 1 Use a multi-regional Cloud Storage bucket  
2 Monitor Dataflow metrics with Cloud Monitoring to determine when an outage occurs  
3 Seek the subscription back in time by 60 minutes to recover the acknowledged messages  
4 Start the Dataflow job in a secondary region

**Answer: A**

Explanation:

A dual-region Cloud Storage bucket is a type of bucket that stores data redundantly across two regions within the same continent. This provides higher availability and durability than a regional bucket, which stores data in a single region. A dual-region bucket also provides lower latency and higher throughput than a multi-regional bucket, which stores data across multiple regions within a continent or across continents. A dual-region bucket with turbo replication enabled is a premium option that offers even faster replication across regions, but it is more expensive and not necessary for this scenario.

By using a dual-region Cloud Storage bucket, you can ensure that your data is protected from regional outages, and that you can access it from either region with low latency and high performance. You can also monitor the Dataflow metrics with Cloud Monitoring to determine when an outage occurs, and seek the subscription back in time by 15 minutes to recover the acknowledged messages. Seeking a subscription allows you to replay the messages from a Pub/Sub topic that were published within the message retention duration, which is one day in this case. By seeking the subscription back in time by 15 minutes, you can meet the RPO of 15 minutes, which means the maximum amount of data loss that is acceptable for your business. You can then start the Dataflow job in a secondary region and write to the same dual-region bucket, which will resume the processing of the messages and prevent data loss.

Option A is not a good solution, as using a regional Cloud Storage bucket does not provide any redundancy or protection from regional outages. If the region where the bucket is located experiences an outage, you will not be able to access your data or write new data to the bucket. Seeking the subscription back in time by one day is also unnecessary and inefficient, as it will replay all the

messages from the past day, even though you only need to recover the messages from the past 15 minutes.

Option B is not a good solution, as using a multi-regional Cloud Storage bucket does not provide the best performance or cost-efficiency for this scenario. A multi-regional bucket stores data across multiple regions within a continent or across continents, which provides higher availability and durability than a dual-region bucket, but also higher latency and lower throughput. A multi-regional bucket is more suitable for serving data to a global audience, not for processing data with Dataflow within a single continent. Seeking the subscription back in time by 60 minutes is also unnecessary and inefficient, as it will replay more messages than needed to meet the RPO of 15 minutes.

Option D is not a good solution, as using a dual-region Cloud Storage bucket with turbo replication enabled does not provide any additional benefit for this scenario, but only increases the cost. Turbo replication is a premium option that offers faster replication across regions, but it is not required to meet the RPO of 15 minutes. Seeking the subscription back in time by 60 minutes is also unnecessary and inefficient, as it will replay more messages than needed to meet the RPO of 15 minutes. Reference: Storage locations | Cloud Storage | Google Cloud, Dataflow metrics | Cloud Dataflow | Google Cloud, Seeking a subscription | Cloud Pub/Sub | Google Cloud, Recovery point objective (RPO) | Acronis.

### NEW QUESTION # 59

Which role must be assigned to a service account used by the virtual machines in a Dataproc cluster so they can execute jobs?

- A. Dataproc Worker
- B. Dataproc Editor
- C. Dataproc Runner
- D. Dataproc Viewer

**Answer: A**

Explanation:

Explanation

Service accounts used with Cloud Dataproc must have Dataproc/Dataproc Worker role (or have all the permissions granted by Dataproc Worker role).

Reference: [https://cloud.google.com/dataproc/docs/concepts/service-accounts#important\\_notes](https://cloud.google.com/dataproc/docs/concepts/service-accounts#important_notes)

### NEW QUESTION # 60

You need to look at BigQuery data from a specific table multiple times a day. The underlying table you are querying is several petabytes in size, but you want to filter your data and provide simple aggregations to downstream users. You want to run queries faster and get up-to-date insights quicker. What should you do?

- A. Run a scheduled query to pull the necessary data at specific intervals daily.
- B. Limit the query columns being pulled in the final result.
- C. Create a materialized view based off of the query being run.
- D. Use a cached query to accelerate time to results.

**Answer: A**

Explanation:

Materialized views are precomputed views that periodically cache the results of a query for increased performance and efficiency. BigQuery leverages precomputed results from materialized views and whenever possible reads only changes from the base tables to compute up-to-date results. Materialized views can significantly improve the performance of workloads that have the characteristic of common and repeated queries. Materialized views can also optimize queries with high computation cost and small dataset results, such as filtering and aggregating large tables. Materialized views are refreshed automatically when the base tables change, so they always return fresh data. Materialized views can also be used by the BigQuery optimizer to process queries to the base tables, if any part of the query can be resolved by querying the materialized view. References:

Introduction to materialized views

Create materialized views

BigQuery Materialized View Simplified: Steps to Create and 3 Best Practices Materialized view in Bigquery

### NEW QUESTION # 61

When creating a new Cloud Dataproc cluster with the `projects.regions.clusters.create` operation, these four values are required: `project`, `region`, `name`, and \_\_\_\_\_.

- A. label
- B. type
- C. node
- **D. zone**

**Answer: D**

Explanation:

At a minimum, you must specify four values when creating a new cluster with the projects.regions.clusters.

create operation:

The project in which the cluster will be created

The region to use

The name of the cluster

The zone in which the cluster will be created

You can specify many more details beyond these minimum requirements. For example, you can also specify the number of workers, whether preemptible compute should be used, and the network settings.

Reference: [https://cloud.google.com/dataproc/docs/tutorials/python-library-example#create\\_a\\_new\\_cloud\\_dataproc\\_cluste](https://cloud.google.com/dataproc/docs/tutorials/python-library-example#create_a_new_cloud_dataproc_cluste)

## NEW QUESTION # 62

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