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EXAM PROFESSIONAL DATA ENGINEER TOPIC 1 QUESTION 185 DISCUSSION

Actual exam question from Google's Professional Data Engineer

Question #: 185

Topic #: 1

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You issue a new batch job to Dataflow. The job starts successfully, processes a few elements, and then suddenly fails and shuts down. You navigate to the Dataflow monitoring interface where you find errors related to a particular DoFn in your pipeline. What is the most likely cause of the errors?

- A. Job validation
- B. Exceptions in worker code
- C. Graph or pipeline construction
- D. Insufficient permissions



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by  **AWSandeep** at *Sept. 2, 2022, 10:47 p.m.*

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 **AWSandeep** [Highly Voted](#)  2 years, 2 months ago

Selected Answer: B

B. Exceptions in worker code

While your job is running, you might encounter errors or exceptions in your worker code. These errors generally mean that the DoFns in your pipeline code have generated unhandled exceptions, which result in failed tasks in your Dataflow job.

Exceptions in user code (for example, your DoFn instances) are reported in the Dataflow monitoring interface.

Reference (Lists all answer choices and when to pick each one):

<https://cloud.google.com/dataflow/docs/guides/troubleshooting-your-pipeline#Causes>

   upvoted 13 times

  **zellick** **Highly Voted**  1 year, 11 months ago

Selected Answer: B

B is the answer.

https://cloud.google.com/dataflow/docs/guides/troubleshooting-your-pipeline#detect_an_exception_in_worker_code

While your job is running, you might encounter errors or exceptions in your worker code. These errors generally mean that the DoFns in your pipeline code have generated unhandled exceptions, which result in failed tasks in your Dataflow job.

Exceptions in user code (for example, your DoFn instances) are reported in the Dataflow monitoring interface.

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  **MaxNRG** **Most Recent**  10 months, 2 weeks ago

Selected Answer: B

The most likely cause of the errors you're experiencing in Dataflow, particularly if they are related to a particular DoFn (Dataflow's parallel processing operation), is B. Exceptions in worker code.

When a Dataflow job processes a few elements successfully before failing, it suggests that the overall job setup, permissions, and pipeline graph are likely correct, as the job was able to start and initially process data. However, if it fails during execution and the errors are associated with a specific DoFn, this points towards issues in the code that executes within the workers. This could include:

1. Runtime exceptions in the code logic of the DoFn.
2. Issues handling specific data elements that might not be correctly managed by the DoFn code (e.g., unexpected data formats, null values, etc.).
3. Resource constraints or timeouts if the DoFn performs operations that are resource-intensive or long-running.


   upvoted 2 times

  **MaxNRG** 10 months, 2 weeks ago

To resolve these issues, you should:

1. Inspect the stack traces and error messages in the Dataflow monitoring interface for details on the exception.
2. Test the DoFn with a variety of data inputs, especially edge cases, to ensure robust error handling.
3. Review the resource usage and performance characteristics of the DoFn if the issue is related to resource constraints.


   upvoted 2 times

  **vaga1** 1 year, 5 months ago

Selected Answer: B

- A. Job validation - since it started successfully, it must have been validated.
B. Exceptions in worker code - possible
C. Graph or pipeline construction - same as A.
D. Insufficient permissions - no elements to say that, and it should led to invalidation.

   upvoted 3 times

  **Atnafu** 1 year, 11 months ago

C

Code error

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  **pluiedust** 2 years, 1 month ago

Selected Answer: B

B is correct

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  **ducc** 2 years, 2 months ago

Selected Answer: B

B is correct

   upvoted 1 times



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