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Exam Professional Data Engineer All Questions

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📄 EXAM PROFESSIONAL DATA ENGINEER TOPIC 1 QUESTION 45 DISCUSSION

Actual exam question from Google's Professional Data Engineer

Question #: 45

Topic #: 1

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You work for a manufacturing plant that batches application log files together into a single log file once a day at 2:00 AM. You have written a Google Cloud Dataflow job to process that log file. You need to make sure the log file is processed once per day as inexpensively as possible. What should you do?

- A. Change the processing job to use Google Cloud Dataproc instead.
- B. Manually start the Cloud Dataflow job each morning when you get into the office.
- C. Create a cron job with Google App Engine Cron Service to run the Cloud Dataflow job.
- D. Configure the Cloud Dataflow job as a streaming job so that it processes the log data immediately.

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by [deleted] at *March 21, 2020, 7:34 a.m.*

Comments

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🗨️ 👤 [Removed] [Highly Voted](#) 👍 4 years, 7 months ago

Answer: C




   upvoted 22 times

  **[Removed]**  4 years, 7 months ago

Answer: C

Description: Scheduler for adhoc jobs – 3 jobs free and \$0.10 per job

   upvoted 13 times

  **grshankar9**  3 months, 2 weeks ago

Selected Answer: C

App Engine Cron is limited to scheduling tasks within your App Engine application, whereas Cloud Scheduler can trigger actions on various Google Cloud services like Cloud Functions, Pub/Sub topics, or external HTTP endpoints.


   upvoted 1 times

  **axantroff** 11 months, 2 weeks ago

Selected Answer: C

Service was renamed, but the answer is still - C

   upvoted 1 times

  **imran79** 1 year ago

C. Using the Google App Engine Cron Service to run the Cloud Dataflow job allows you to automate the execution of the job. By creating a cron job, you can ensure that the Dataflow job is triggered exactly once per day at a specified time. This approach is automated, reliable, and fits the requirement of processing the log file once per day.

   upvoted 1 times

  **itsmynickname** 1 year, 3 months ago

C. For a modern solution, Cloud Scheduler

   upvoted 5 times

  **Maurilio_Cardoso** 1 year, 5 months ago

Selected Answer: C

Currently, Cloud Scheduler takes over the scheduling functions.

   upvoted 2 times

  **jin0** 1 year, 8 months ago

I don't understand why that dataflow is used for processing? even though it should be processed once per a day?? is it more suitable for processing by using Dataproc instead?

   upvoted 2 times

  **mark1223jkh** 5 months, 2 weeks ago

Actually, google recommends Dataflow over Dataproc for both batch and streaming. Dataproc is only recommended if you are coming from hadoop, spark,

   upvoted 2 times

  **captainbu** 1 year, 10 months ago

Selected Answer: C

C was correct but nowadays you'd schedule a Dataflow job with Cloud Scheduler:
<https://cloud.google.com/community/tutorials/schedule-dataflow-jobs-with-cloud-scheduler>

   upvoted 6 times

  **Ender_H** 2 years, 1 month ago

Selected Answer: C

Correct Answer: C.

A: Dataproc is a managed Apache Spark and Apache Hadoop service, makes no sense to use it

B: This might sound as the cheapest, but is highly error prone, besides, anyone in charge of this has a salary and I doubt is a low one.

C: This is the easiest/fastest/cheapest way to trigger job runs, you can even set retry attempts.
source: <https://cloud.google.com/appengine/docs/flexible/nodejs/scheduling-jobs-with-cron-yaml>.

D: Setting this would be much more expensive than the cron-job

   upvoted 2 times

  **noob_master** 2 years, 4 months ago

Selected Answer: C

Answer: C

   upvoted 1 times

🗄️ 👤 **anji007** 3 years ago

Ans: C

👍 ↩️ 🚩 upvoted 2 times

🗄️ 👤 **Chelseajcole** 3 years ago

I know probably this question is testing on if you know cron.yaml and its function in App Engine. But why B will be more expensive? Human capital cost? Let's say if hiring a person click the button will be cheaper than launch an app engine, should we reconsider B?

👍 ↩️ 🚩 upvoted 3 times

🗄️ 👤 **AmirN** 2 years, 5 months ago

Would you rather pay someone \$100,000 a year to click 'run' on jobs all day, or have them automate it and do more cutting edge work? This would be opportunity cost.

👍 ↩️ 🚩 upvoted 3 times

🗄️ 👤 **Chelseajcole** 3 years, 1 month ago

Scheduling Jobs with cron.yaml

Free applications can have up to 20 scheduled tasks. Paid applications can have up to 250 scheduled tasks.

👍 ↩️ 🚩 upvoted 3 times

🗄️ 👤 **sumanshu** 3 years, 4 months ago

Vote for 'C'

👍 ↩️ 🚩 upvoted 2 times

🗄️ 👤 **naga** 3 years, 9 months ago

Correct C

👍 ↩️ 🚩 upvoted 3 times

🗄️ 👤 **Radhika7983** 3 years, 11 months ago

Answer is C. <https://cloud.google.com/appengine/docs/flexible/nodejs/scheduling-jobs-with-cron-yaml>

👍 ↩️ 🚩 upvoted 5 times

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