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## Exam Professional Data Engineer All Questions

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### 📄 EXAM PROFESSIONAL DATA ENGINEER TOPIC 1 QUESTION 147 DISCUSSION

Actual exam question from Google's Professional Data Engineer

Question #: 147

Topic #: 1

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You are implementing several batch jobs that must be executed on a schedule. These jobs have many interdependent steps that must be executed in a specific order. Portions of the jobs involve executing shell scripts, running Hadoop jobs, and running queries in BigQuery. The jobs are expected to run for many minutes up to several hours. If the steps fail, they must be retried a fixed number of times. Which service should you use to manage the execution of these jobs?

- A. Cloud Scheduler
- B. Cloud Dataflow
- C. Cloud Functions
- D. Cloud Composer

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by [madhu1171](#) at March 15, 2020, 5:11 p.m.

### Comments



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🗨️ [mario\\_ordinola](#) [Highly Voted](#) 👍 3 years, 7 months ago




if someone are not sure that D is the answer, I suggest to don't take the exam

   upvoted 42 times

  **madhu1171** Highly Voted  4 years, 7 months ago

D should be the answer

   upvoted 23 times

  **patitonav** Most Recent  10 months, 1 week ago

Selected Answer: D

No duobt

   upvoted 2 times

  **barnac1es** 1 year, 1 month ago

Selected Answer: D

Workflow Orchestration: Cloud Composer is a fully managed workflow orchestration service based on Apache Airflow. It allows you to define, schedule, and manage complex workflows with multiple steps, including shell scripts, Hadoop jobs, and BigQuery queries.

Dependency Management: You can define dependencies between different steps in your workflow to ensure they are executed in a specific order.

Retry Mechanism: Cloud Composer provides built-in retry mechanisms, so if any step fails, it can be retried a fixed number of times according to your configuration.

Scheduled Execution: Cloud Composer allows you to schedule the execution of your workflows on a regular basis, meeting the requirement for executing the jobs on a schedule.

   upvoted 1 times

  **AzureDP900** 1 year, 10 months ago

D is right

   upvoted 3 times

  **zelck** 1 year, 11 months ago

Selected Answer: D

D is the answer.

<https://cloud.google.com/composer/docs/concepts/overview>

Cloud Composer is a fully managed workflow orchestration service, enabling you to create, schedule, monitor, and manage workflows that span across clouds and on-premises data centers.



   upvoted 4 times

  **DataEngineer\_WideOps** 2 years, 3 months ago

Selected Answer: A

Cloud Composer for sure.

   upvoted 1 times

  **[Removed]** 2 years, 1 month ago

Composer is D

   upvoted 2 times

  **nadavw** 2 years, 5 months ago

D.

per document "Scheduler" is aimed to a single service and composer for an ETL , in addition it's not even specified all jobs are on cloud so only composer can handle it.

   upvoted 1 times

  **nadavw** 2 years, 5 months ago

<https://cloud.google.com/blog/topics/developers-practitioners/choosing-right-orchestrator-google-cloud>


   upvoted 1 times

  **medeis\_jar** 2 years, 10 months ago

Selected Answer: D

Cloud Composer

   upvoted 2 times

  **JG123** 2 years, 11 months ago

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Ans: D

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  **daghayeghi** 3 years, 8 months ago

D:

the main point is that Cloud Composer should be used when there is inter-dependencies between the job, e.g. we need the output of a job to start another whenever the first finished, and use dependencies coming from first job.

   upvoted 4 times

  **ashuchip** 3 years, 10 months ago

D seems to be quiet relevant , because using composeure you can do all things which are being asked to perform, even retry property is there in composeure.

   upvoted 3 times

  **Alasmindas** 3 years, 11 months ago

The correct answer is Option A : Cloud Scheduler .

Although at first instance, I thought it should be Cloud Composer but then looking at the question and reading it few times - it concluded me to go for Option A.

Cloud Scheduler has built in retry handling so you can set a fixed number of times and doesn't have time limits for requests. The functionality is much simpler than Cloud Composer. Cloud Composer is managed Apache Airflow that "helps you create, schedule, monitor and manage workflows. For automate scheduled jobs - the most preferred method would be Scheduler, Composer would typically be used when we want to orchestrate many managed services and automate the work flow.

   upvoted 5 times

  **baubaumiaomiao** 2 years, 10 months ago

You forgot the "These jobs have many interdependent steps" which can be handled only though Composer

   upvoted 1 times

  **kavs** 3 years, 11 months ago

A seems to be right

   upvoted 1 times

  **mumukshu** 3 years, 10 months ago

I think D , how scheduler can handle this part " The jobs are expected to run for many minutes up to several hours"

   upvoted 3 times

  **Abby1356** 3 years, 11 months ago

should be A

   upvoted 1 times

  **arghya13** 4 years ago

Answer should be A..Cloud scheduler..cloud composer is an workflow manager. Can't run unix,bigquery jobs

   upvoted 2 times

  **Tanmoyk** 4 years, 1 month ago

D should be the best option

   upvoted 3 times

  **haroldbenites** 4 years, 2 months ago

D is correct

   upvoted 3 times

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