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## Exam Professional Data Engineer All Questions

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### 📄 EXAM PROFESSIONAL DATA ENGINEER TOPIC 1 QUESTION 25 DISCUSSION

Actual exam question from Google's Professional Data Engineer

Question #: 25

Topic #: 1

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You want to use Google Stackdriver Logging to monitor Google BigQuery usage. You need an instant notification to be sent to your monitoring tool when new data is appended to a certain table using an insert job, but you do not want to receive notifications for other tables. What should you do?

- A. Make a call to the Stackdriver API to list all logs, and apply an advanced filter.
- B. In the Stackdriver logging admin interface, and enable a log sink export to BigQuery.
- C. In the Stackdriver logging admin interface, enable a log sink export to Google Cloud Pub/Sub, and subscribe to the topic from your monitoring tool.
- D. Using the Stackdriver API, create a project sink with advanced log filter to export to Pub/Sub, and subscribe to the topic from your monitoring tool.

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by [jvg637](#) at March 11, 2020, 7:16 p.m.

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  **jvg637** Highly Voted  4 years, 7 months ago

I would choose D.

A and B are wrong since don't notify anything to the monitoring tool.

C has no filter on what will be notified. We want only some tables.

   upvoted 49 times

  **MaxNRG** Highly Voted  2 years, 12 months ago

D as the key requirement is to have notification on a particular table. It can be achieved using advanced log filter to filter only the table logs and create a project sink to Cloud Pub/Sub for notification.

Refer GCP documentation - Advanced Logs Filters: <https://cloud.google.com/logging/docs/view/advanced-queries>

A is wrong as advanced filter will help in filtering. However, there is no notification sends.

B is wrong as it would send all the logs and BigQuery does not provide notifications.

C is wrong as it would send all the logs.

   upvoted 15 times

  **suwalsageen12** Most Recent  5 months, 2 weeks ago

D is the correct answer because:

- we need to advance filtering to filter the logs for the specific table

- we need to use monitoring tool for notification.

   upvoted 1 times

  **axantroff** 11 months, 2 weeks ago

**Selected Answer: D**

Good point by MaxNRG about reducing the number of logs sending to Pub/Sub

   upvoted 2 times

  **ruben82** 1 year ago

Theoretically Pub/Sub could filters log to forward the right ones to the correct topic.

<https://cloud.google.com/pubsub/docs/subscription-message-filter>

So C could be accepted, but It's better if filtering is performed earlier, so in this case D is more performing

   upvoted 1 times

  **rtcpost** 1 year ago

**Selected Answer: D**

D. Using the Stackdriver API, create a project sink with an advanced log filter to export to Pub/Sub, and subscribe to the topic from your monitoring tool.

This approach allows you to set up a custom log sink with an advanced filter that targets the specific table and then export the log entries to Google Cloud Pub/Sub. Your monitoring tool can subscribe to the Pub/Sub topic, providing you with instant notifications when relevant events occur without being inundated with notifications from other tables.

Options A and B do not offer the same level of customization and specificity in targeting notifications for a particular table.

Option C is almost correct but doesn't mention the use of an advanced log filter in the sink configuration, which is typically needed to filter the logs to a specific table effectively. Using the Stackdriver API for more advanced configuration is often necessary for fine-grained control over log filtering.

   upvoted 2 times

  **suku2** 1 year, 1 month ago

**Selected Answer: D**

D makes sense.

   upvoted 1 times

  **GCP\_PDE\_AG** 1 year, 2 months ago




D should be the answer

   upvoted 1 times

  **Mathew106** 1 year, 3 months ago

**Selected Answer: D**




A and B mention nothing about notifications and C would push all data. It's D.


   upvoted 1 times

  **bha11111** 1 year, 7 months ago

**Selected Answer: D**

D makes sense

   upvoted 1 times

  **Jackalski** 1 year, 10 months ago

**Selected Answer: D**

"advanced log filter" is the key word here. all other options push all data ...

👍 ↩ 🚩 upvoted 2 times

🗄 👤 **Jasar** 1 year, 12 months ago

**Selected Answer: D**

D is the best choice

👍 ↩ 🚩 upvoted 1 times

🗄 👤 **alecuba16** 2 years, 6 months ago

**Selected Answer: D**

Using the Stackdriver API, create a project sink with advanced log filter to export to Pub/Sub, and subscribe to the topic from your monitoring tool.

👍 ↩ 🚩 upvoted 4 times

🗄 👤 **devric** 2 years, 7 months ago

**Selected Answer: D**

D. Option B doesn't make sense

👍 ↩ 🚩 upvoted 2 times

🗄 👤 **samdhimal** 2 years, 9 months ago

correct answer -> Using the Stackdriver API, create a project sink with advanced log filter to export to Pub/Sub, and subscribe to the topic from your monitoring tool.

Option C is also most likely right answer but it doesn't have the filter. We don't want all the tables. We only want one. So the correct answer is D.

Logging sink - Using a Logging sink, you can direct specific log entries to your business logic. In this example, you can use Cloud Audit logs for Compute Engine which use the resource type `gce_firewall_rule` to filter for the logs of interest. You can also add an event type `GCE_OPERATION_DONE` to the filter to capture only the completed log events. Here is the Logging filter used to identify the logs. You can try out the query in the Logs Viewer.

Pub/Sub topic – In Pub/Sub, you can create a topic to which to direct the log sink and use the Pub/Sub message to trigger a cloud function.

Reference: <https://cloud.google.com/blog/products/management-tools/automate-your-response-to-a-cloud-logging-event>

👍 ↩ 🚩 upvoted 3 times

🗄 👤 **santoshindia** 2 years, 9 months ago

**Selected Answer: D**

explained by MaxNRG

👍 ↩ 🚩 upvoted 3 times

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

**Selected Answer: D**

as explained by MaxNRG

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