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## Exam Professional Cloud Security Engineer All Questions

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### 📄 EXAM PROFESSIONAL CLOUD SECURITY ENGINEER TOPIC 1 QUESTION 158 DISCUSSION

Actual exam question from Google's Professional Cloud Security Engineer

Question #: 158

Topic #: 1

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You are deploying a web application hosted on Compute Engine. A business requirement mandates that application logs are preserved for 12 years and data is kept within European boundaries. You want to implement a storage solution that minimizes overhead and is cost-effective. What should you do?

- A. Create a Cloud Storage bucket to store your logs in the EUROPE-WEST1 region. Modify your application code to ship logs directly to your bucket for increased efficiency.
- B. Configure your Compute Engine instances to use the Google Cloud's operations suite Cloud Logging agent to send application logs to a custom log bucket in the EUROPE-WEST1 region with a custom retention of 12 years.
- C. Use a Pub/Sub topic to forward your application logs to a Cloud Storage bucket in the EUROPE-WEST1 region.
- D. Configure a custom retention policy of 12 years on your Google Cloud's operations suite log bucket in the EUROPE-WEST1 region.

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by [tangac](#) at Sept. 7, 2022, 7:57 a.m.

### Comments

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  **tangac** Highly Voted  2 years, 10 months ago

The A and the C are the two possible (12 years retention is not possible with Cloud Logging...max 3650 days) so now the question is...pub/sub or not pub/sub....  
in my opinion when it's said...limit overhead, i should go with the A....but not really sure

   upvoted 14 times

  **mohomad7** 2 years, 3 months ago

<https://cloud.google.com/logging/docs/buckets#custom-retention>  
Cloud Logging max 3650 days

   upvoted 5 times

  **meh009** 2 years, 8 months ago

Correct. Tested and can verify this. Between A and C. and I would choose A.

   upvoted 2 times

  **giu2301** 2 years, 3 months ago




re-writing code is never the best answer imho. Why not use pub/sub? We do that for any 3rd party app. I'm positively sure that B and D are wrong. Still thinking which one would have the least operational overhead between A and C.

   upvoted 2 times

  **[Removed]** 2 years ago

With "C" you're forwarding logs which means you either have two copies (if you're forwarding without deleting original) or best case, you have an intermediate step/hop. Whereas with "A", the app is writing directly to the bucket in Europe so only one copy guaranteed and one journey from app to storage instead of going through an intermediate steps. So "A" is less overhead.

   upvoted 2 times

  **GHOST1985** Highly Voted  2 years, 10 months ago

**Selected Answer: B**

A: Google recommend to avoid developping new code while it propose service for that => incorrect

B: seem to reponse for this needs => correct

C: Pub/sub is not using for forwarding log, it is an event notification, and no configuration for the retention 12 years is proposed => incorrect

D: how the application will forward the logs to the bucket ? => incorrect

   upvoted 10 times




  **KLei** 7 months ago

Seems there is a limitation of retention period for the Google Log Buckets. So A is the correct answer

[https://cloud.google.com/logging/docs/buckets#create\\_bucket](https://cloud.google.com/logging/docs/buckets#create_bucket)

Optional: To set a custom retention period for the logs in the bucket, click Next.

In the Retention period field, enter the number of days, between 1 day and **\*\*3650 days\*\***, that you want Cloud Logging to retain your logs. If you don't customize the retention period, the default is 30 days.

   upvoted 1 times

  **juanmacoelloccloudsecarch** Most Recent  1 week, 4 days ago

**Selected Answer: A**

No, log buckets are max 10 years retention ... We need a cloud storage bucket.

   upvoted 1 times

  **YourFriendlyNeighborhoodSpider** 4 months, 2 weeks ago

**Selected Answer: B**

A cannot be correct, in the question you see that "12 years retention" is a MANDATORY REQUIREMENT.

-> People in the comment complain that maximum is 3650 days (10 years), sure, not 12 years, but DEFAULT RETENTION IS 30 DAYS IF YOU GO WITH OPTION A, SO DEFINITELY NOT THE CORRECT ONE, SO I RATHER GO WITH B AND SAVE MYSELF TROUBLES.

-> Moreover A requires changing the application code, which is not advisable by best practices. Logging solutions should be simple to implement, not to change your code.

   upvoted 1 times

  **KLei** 7 months, 1 week ago


**Selected Answer: A**

B is OK if the retention period is 10 years. So A should be the best answer

<https://cloud.google.com/logging/docs/buckets>

In the Retention period field, enter the number of days, between 1 day and 3650 days, that you want Cloud Logging to retain your logs. If you don't customize the retention period, the default is 30 days.

   upvoted 1 times

  **Pime13** 7 months, 2 weeks ago

**Selected Answer: B**

The best option to meet your requirements is B: Configure your Compute Engine instances to use the Google Cloud's operations suite Cloud Logging agent to send application logs to a custom log bucket in the EUROPE-WEST1 region with a custom retention of 12 years.

This solution ensures that:

Logs are automatically collected and managed by the Cloud Logging agent, reducing manual overhead.

Data is stored within the specified European region.

A custom retention policy of 12 years is applied, meeting the business requirement for log preservation.

plus: Compute Engine instances do not automatically log into Cloud Logging. You need to install an agent to enable this functionality. Specifically, you can use the Ops Agent, which is recommended for new Google Cloud workloads as it combines both logging and monitoring capabilities

   upvoted 1 times

  **MoAk** 7 months, 4 weeks ago

**Selected Answer: C**

Cos A is hassle, and Google never recommend to mess with app code.

   upvoted 1 times

  **BPzen** 8 months ago

**Selected Answer: B**

B. Configure your Compute Engine instances to use the Google Cloud's operations suite Cloud Logging agent to send application logs to a custom log bucket in the EUROPE-WEST1 region with a custom retention of 12 years.

Option D is not feasible for a 12-year retention requirement because the default log buckets in Google Cloud's operations suite have a fixed retention period of 365 days, which cannot be changed. If the retention requirement exceeds 365 days, a custom log bucket must be used instead.

   upvoted 1 times

  **BPzen** 8 months ago

**Selected Answer: B**

Option B: Provides a seamless and integrated logging solution while ensuring compliance with location and retention requirements.

   upvoted 1 times

  **2ndjuly** 8 months ago

**Selected Answer: B**

A is unnecessary complexity

   upvoted 1 times

  **MoAk** 8 months ago

**Selected Answer: C**

Without doubt its between A and C due to obvious retention caveats on log buckets. I choose C because of Google's push to simplify everything and to use their own native services rather than tinkering with your app code. Answer C.

   upvoted 1 times

  **KLei** 9 months ago

Max custom log retention:

<https://cloud.google.com/logging/docs/buckets#custom-retention>

   upvoted 2 times

  **Mr\_MIXER007** 11 months ago

**Selected Answer: A**

Selected Answer: A

   upvoted 1 times

  **3d9563b** 1 year ago

**Selected Answer: B**

Option B is the best approach because it leverages the Google Cloud's operations suite Cloud Logging agent for efficient log collection, ensures compliance with data residency requirements by storing logs in the EUROPE-WEST1 region, and allows for setting a custom retention policy of 12 years. This solution balances operational efficiency with compliance and cost-effectiveness.

   upvoted 1 times

  **Roro\_Brother** 1 year, 2 months ago

**Selected Answer: A**

A is the solution because you can't have a retention more than 3650 days

👍 ↩ 🚩 upvoted 1 times

🗂  **irmingard\_examtopics** 1 year, 3 months ago

**Selected Answer: C**

We need a Cloud Storage bucket not a log bucket, as their max log retention period is 10 years, so B and D are out. A does not minimize overhead as it is additional work.

That leaves C in my opinion.

👍 ↩ 🚩 upvoted 3 times

🗂  **Natan97** 1 year, 3 months ago

B is correct.

This option totally makes sense because approach points to decrease overhead and optimize cost.

👍 ↩ 🚩 upvoted 1 times

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