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EXAM PROFESSIONAL CLOUD SECURITY ENGINEER TOPIC 1 QUESTION 230 DISCUSSION

Actual exam question from Google's Professional Cloud Security Engineer
Question #: 230
Topic #: 1
[All Professional Cloud Security Engineer Questions]

For data residency requirements, you want your secrets in Google Clouds Secret Manager to only have payloads in europe-west1 and europe-west4. Your secrets must be highly available in both regions.

What should you do?

A. Create your secret with a user managed replication policy, and choose only compliant locations.

B. Create your secret with an automatic replication policy, and choose only compliant locations.

C. Create two secrets by using Terraform, one in europe-west1 and the other in europe-west4.

D. Create your secret with an automatic replication policy, and create an organizational policy to deny secret creation in non-compliant locations.

Show Suggested Answer

by kapara at *July 31, 2023, 1:13 p.m.*

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pfilourenco Highly Voted 1 year, 11 months ago

Selected Answer: A

A is the correct. https://cloud.google.com/secret-manager/docs/choosing-replication#user-managed

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Pime13 Most Recent 7 months, 3 weeks ago

Selected Answer: A

B. Automatic Replication Policy: This does not allow you to specify locations, so it wouldn't meet your data residency requirements.
C. Two Secrets with Terraform: This approach is more complex and less efficient than using a user managed replication policy.
D. Automatic Replication with Organizational Policy: This would not provide the control needed to ensure secrets are only in the specified regions.

upvoted 1 times

MoAk 8 months, 1 week ago

Selected Answer: A

A is correct as per

https://cloud.google.com/secret-manager/docs/overview#:~:text=Ensure%20high%20availability%20and%20disaster,regardless%20of%20their%20geographic%20location.

upvoted 1 times

desertlotus1211 1 year, 5 months ago

Answer B:

Here's the rationale for this choice:

Secret Manager offers automatic replication for secrets, ensuring high availability by default. When you create a secret with an automatic replication policy, it automatically replicates the secret's data to multiple regions for redundancy.

By choosing only compliant locations (europe-west1 and europe-west4) in your automatic replication policy, you enforce that the secret's data is stored only in those two regions, meeting your data residency requirements.

upvoted 1 times

iEM4D 1 year, 6 months ago

Selected Answer: A

https://cloud.google.com/secret-manager/docs/choosing-replication#user-managed

upvoted 1 times

ArizonaClassics 1 year, 10 months ago

A. Create your secret with a user managed replication policy, and choose only compliant locations.

Here's why:

User-managed replication lets you explicitly specify the secret's regions of replication, which aligns with the requirement to have payloads only in europe-west1 and europe-west4.

upvoted 1 times

Mithung30 1 year, 11 months ago

Correct answer is A. https://cloud.google.com/secret-manager/docs/choosing-replication?_ga=2.216110614.-1813351517.1690289784

upvoted 1 times

alkaloid 1 year, 11 months ago

ChatGPT-3.5 proposes B instead.
I'll go with A https://www.youtube.com/watch?v=9KWGRSVZtFU&t=335s

upvoted 2 times

kapara 1 year, 12 months ago

from ChatGPT-4:
The correct answer is A. Create your secret with a user-managed replication policy, and choose only compliant locations.

In Google Cloud's Secret Manager, secrets with a user-managed replication policy are replicated only in the user-specified locations. This can be used to ensure data residency requirements are met, as the secret data (payloads) will not be stored or replicated outside of the regions selected in the policy.

The automatic replication policy option (B and D) would not work because it replicates data across all regions in Google Cloud, which may violate the data residency requirements.

Creating two secrets using Terraform (C) in different regions could work from a data residency standpoint, but it could lead to management issues as you would have two separate secrets to manage instead of one.

upvoted 2 times

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