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## **Exam Professional Cloud Security Engineer All Questions**

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# **EXAM PROFESSIONAL CLOUD SECURITY ENGINEER TOPIC 1 QUESTION 15 DISCUSSION**

Actual exam question from Google's Professional Cloud Security Engineer

Question #: 15

Topic #: 1

[All Professional Cloud Security Engineer Questions]

An application running on a Compute Engine instance needs to read data from a Cloud Storage bucket. Your team does not allow Cloud Storage buckets to be globally readable and wants to ensure the principle of least privilege.

Which option meets the requirement of your team?

- A. Create a Cloud Storage ACL that allows read-only access from the Compute Engine instance's IP address and allows the application to read from the bucket without credentials.
- B. Use a service account with read-only access to the Cloud Storage bucket, and store the credentials to the service account in the config of the application on the Compute Engine instance.
- C. Use a service account with read-only access to the Cloud Storage bucket to retrieve the credentials from the instance metadata.
- D. Encrypt the data in the Cloud Storage bucket using Cloud KMS, and allow the application to decrypt the data with the KMS key.

**Show Suggested Answer** 

by ArizonaClassics at Aug. 2, 2020, 12:17 a.m.

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■ Medofree Highly Voted 1 2 years, 3 months ago

### Selected Answer: C

Correct ans is C. The credentials are retrieved from the metedata server

upvoted 13 times

ESP\_SAP Highly Voted 3 years, 8 months ago

Correct Answer is (B):

If your application runs inside a Google Cloud environment that has a default service account, your application can retrieve the service account credentials to call Google Cloud APIs. Such environments include Compute Engine, Google Kubernetes Engine, App Engine, Cloud Run, and Cloud Functions. We recommend using this strategy because it is more convenient and secure than manually passing credentials.

Additionally, we recommend you use Google Cloud Client Libraries for your application. Google Cloud Client Libraries use a library called Application Default Credentials (ADC) to automatically find your service account credentials. ADC looks for service account credentials in the following order:

https://cloud.google.com/docs/authentication/production#automatically

upvoted 13 times

### 😑 📤 GianpiGale 1 month, 2 weeks ago

Using the default service account does'nt enforce least privilege, you do the same but with a dedicated one, therefore C. Although i think C is very poorly articulated

upvoted 1 times

### ☐ ♣ ChewB666 3 years, 8 months ago

Hello guys!

Does anyone have the rest of the questions to share? :(
I can't see the rest of the issues because of the subscription.

upvoted 3 times

### ☐ ♣ okhascorpio Most Recent ② 9 months, 2 weeks ago

- A. Although it would work, but it is less preferred method and are error prone.
- B. Storing credentials in config is not good idea.
- C. Is preferred method as applications can get credentials from instance metadata securely.
- D. does not suggest controlled access, only encryption.
- upvoted 2 times

### ArizonaClassics 10 months, 2 weeks ago

C. Use a service account with read-only access to the Cloud Storage bucket to retrieve the credentials from the instance metadata.

upvoted 2 times

#### ☐ ♣ 1br4in 1 year, 1 month ago

correct is B: Utilizzare un service account con accesso in sola lettura al bucket di Cloud Storage e archiviare le credenziali del service account nella configurazione dell'applicazione sull'istanza di Compute Engine.

Utilizzando un service account con accesso in sola lettura al bucket di Cloud Storage, puoi fornire all'applicazione le credenziali necessarie per leggere i dati dal bucket. Archiviando le credenziali del service account nella configurazione dell'applicazione sull'istanza di Compute Engine, garantisce che solo l'applicazione su quell'istanza abbia accesso alle credenziali e, di conseguenza, al bucket.

Questa opzione offre il principio del privilegio minimo, in quanto il service account ha solo i permessi necessari per leggere i dati dal bucket di Cloud Storage e le credenziali sono limitate all'applicazione specifica sull'istanza di Compute Engine. Inoltre, non richiede l'accesso globale ai bucket di Cloud Storage o l'utilizzo di autorizzazioni di accesso di rete basate su indirizzo IP.

upvoted 1 times

🗖 🏜 mahi9 1 year, 5 months ago

#### Selected Answer: C

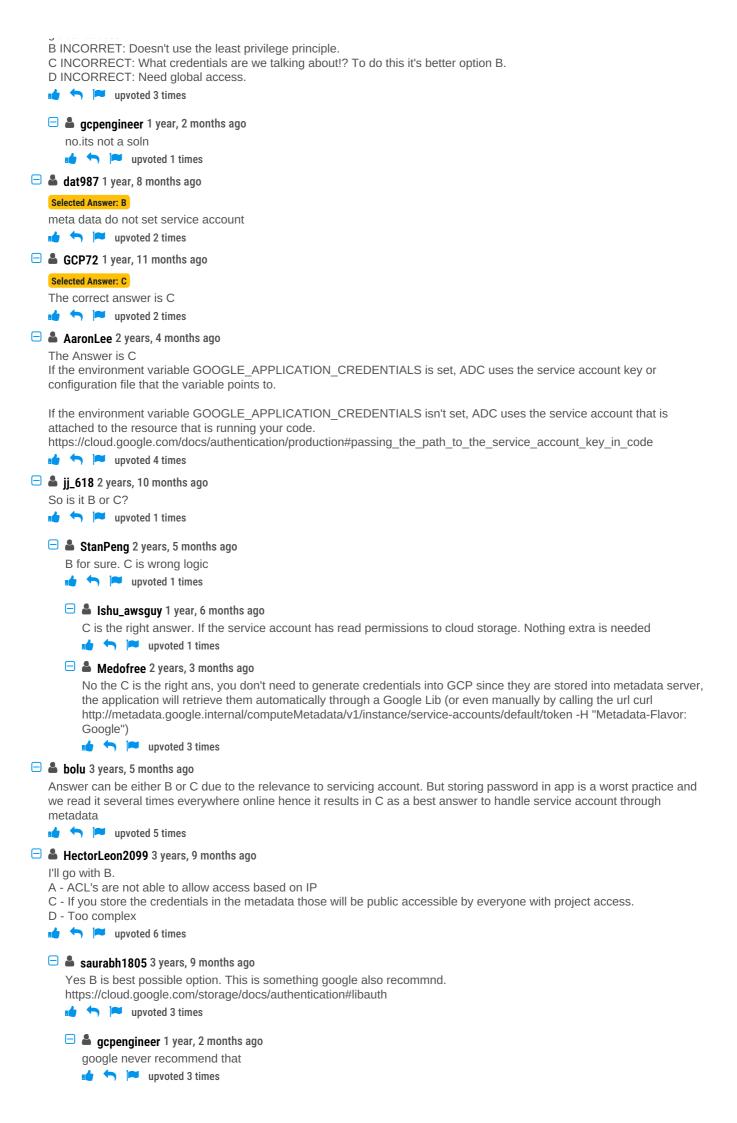
C is the most viable option

upvoted 2 times

🖃 📤 Meyucho 1 year, 8 months ago

#### Selected Answer: A

A CORRECT: It's the only answer when you use ACL to filter local IP's addresses and you can have the bucket without global access.





C is the answer

upvoted 2 times

🖃 🏜 mlyu 3 years, 11 months ago

Hi guys, How do we handle the requirement "does not allow Cloud Storage buckets to be globally readable"? seems none of the answers mention about it

upvoted 1 times

🖃 🏝 rakeshvardan 3 years, 11 months ago

You most likely want to use ACLs if you need to customize access to individual objects within a bucket, since IAM permissions apply to all objects within a bucket. However, you should still use IAM for any access that is common to all objects in a bucket, because this reduces the amount of micro-managing you have to do.

A - as per the above documentation ACLs are needed for specific objects inside bucket.

B - credentials for the service account shouldn't be stored in the app

D - there is no requirement to encrypt the storage data

Hence C seems to be the correct one

upvoted 4 times

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