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EXAM PROFESSIONAL DATA ENGINEER TOPIC 1 QUESTION 307 DISCUSSION

Actual exam question from Google's Professional Data Engineer

Question #: 307

Topic #: 1

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You need to connect multiple applications with dynamic public IP addresses to a Cloud SQL instance. You configured users with strong passwords and enforced the SSL connection to your Cloud SQL instance. You want to use Cloud SQL public IP and ensure that you have secured connections. What should you do?

- A. Add CIDR 0.0.0.0/0 network to Authorized Network. Use Identity and Access Management (IAM) to add users.
- B. Add all application networks to Authorized Network and regularly update them.
- C. Leave the Authorized Network empty. Use Cloud SQL Auth proxy on all applications.
- D. Add CIDR 0.0.0.0/0 network to Authorized Network. Use Cloud SQL Auth proxy on all applications.

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by [scaenruy](#) at Jan. 4, 2024, 1:13 p.m.

Comments

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[raaad](#) [Highly Voted](#) 9 months, 4 weeks ago

Selected Answer: C

- Using the Cloud SQL Auth proxy is a recommended method for secure connections, especially when dealing with dynamic IP addresses.
- The Auth proxy provides secure access to your Cloud SQL instance without the need for Authorized Networks or managing IP addresses.
- It works by encapsulating database traffic and forwarding it through a secure tunnel, using Google's IAM for authentication.
- Leaving the Authorized Networks empty means you're not allowing any direct connections based on IP addresses, relying entirely on the Auth proxy for secure connectivity. This is a secure and flexible solution, especially for applications with dynamic IPs.

👍 ↩ 🚩 upvoted 10 times

🗄️ 👤 **FreshMind** 1 month, 2 weeks ago

In question "You want to use Cloud SQL public IP", how this could be if "Leaving the Authorized Networks empty means you're not allowing any direct connections based on IP addresses" ?

👍 ↩ 🚩 upvoted 1 times

🗄️ 👤 **JyoGCP** Most Recent 8 months, 2 weeks ago

Selected Answer: C

Option C

👍 ↩ 🚩 upvoted 1 times

🗄️ 👤 **Pukapuiz** 9 months, 3 weeks ago

Selected Answer: C

The Cloud SQL Auth Proxy is a Cloud SQL connector that provides secure access to your instances without a need for Authorized networks or for configuring SSL.

<https://cloud.google.com/sql/docs/mysql/sql-proxy>

👍 ↩ 🚩 upvoted 3 times

🗄️ 👤 **Matt_108** 9 months, 3 weeks ago

Selected Answer: C

always use Cloud SQL Auth proxy if possible

👍 ↩ 🚩 upvoted 1 times

🗄️ 👤 **Sofiia98** 9 months, 4 weeks ago

<https://stackoverflow.com/questions/27759356/how-to-authorize-my-dynamic-ip-network-address-in-google-cloud-sql>

<https://stackoverflow.com/questions/24749810/how-to-make-a-google-cloud-sql-instance-accessible-for-any-ip-address>

👍 ↩ 🚩 upvoted 4 times

🗄️ 👤 **JyoGCP** 8 months, 2 weeks ago

Links also say not to go with option D.

0.0.0.0/0 which includes all possible IP Addresses is not recommended for security reasons. You have to keep access as restricted as possible.

👍 ↩ 🚩 upvoted 4 times

🗄️ 👤 **Sofiia98** 9 months, 4 weeks ago

Selected Answer: D

As for me, after reading documentation, option D looks appropriate

👍 ↩ 🚩 upvoted 1 times

🗄️ 👤 **BennyXu** 6 months, 3 weeks ago

Save your shxx answer in your dxxb head.

👍 ↩ 🚩 upvoted 1 times

🗄️ 👤 **scaenruy** 10 months ago

Selected Answer: C

C. Leave the Authorized Network empty. Use Cloud SQL Auth proxy on all applications.

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