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EXAM ASSOCIATE CLOUD ENGINEER TOPIC 1 QUESTION 40 DISCUSSION

Actual exam question from Google's Associate Cloud Engineer

Question #: 40

Topic #: 1

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You have an instance group that you want to load balance. You want the load balancer to terminate the client SSL session. The instance group is used to serve a public web application over HTTPS. You want to follow Google-recommended practices. What should you do?

- A. Configure an HTTP(S) load balancer.
- B. Configure an internal TCP load balancer.
- C. Configure an external SSL proxy load balancer.
- D. Configure an external TCP proxy load balancer.

Show Suggested Answer

by [endc30](#) at March 19, 2020, 11:56 a.m.

Comments

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Gini Highly Voted 4 years, 6 months ago

According to the documentation of SSL Proxy Load Balancing on Google, "SSL Proxy Load Balancing is intended for non-HTTP(S) traffic. For HTTP(S) traffic, we recommend that you use HTTP(S) Load Balancing." in my opinion A should be the most suitable choice.

👍 ↩ 🚩 upvoted 62 times

🗄️ 👤 yvinisiupacuando 3 years, 5 months ago

Agree with you but, A is not the most suitable choice, it is the only choice, as the other Load Balancers cannot route HTTP(S) traffic.

👍 ↩ 🚩 upvoted 16 times

🗄️ 👤 Agents89 **Highly Voted** 🏆 4 years, 6 months ago

For HTTP(s) Load balancer, the client SSL session terminates at the load balancer. A is the correct option.

👍 ↩ 🚩 upvoted 29 times

🗄️ 👤 d6685b2 **Most Recent** 🕒 5 months ago

why A is correcte ?

👍 ↩ 🚩 upvoted 1 times

🗄️ 👤 JackSkeletonCoder 1 month ago

In opt B, Internal tcp only deals with ip and ports in a vpc i.e 'internally' and does not deal with http/s or ssl/tls

In opt C external SSL can serve application over https but not the ssl termination part.

In opt D external TCP only deals with web application over HTTP and not the secured one. To top it off, it can't even terminate SSL session.

Hence the only viable option is HTTP(S) load balancer.

👍 ↩ 🚩 upvoted 2 times

🗄️ 👤 Captain1212 1 year, 1 month ago

Selected Answer: A

google recommend https for terminate the ssl session so A seems more legit

👍 ↩ 🚩 upvoted 1 times

🗄️ 👤 sthapit 1 year, 2 months ago

Question mentions HTTPS, SO A is the correct answer.

👍 ↩ 🚩 upvoted 2 times

🗄️ 👤 Buruguduystunstugudunstuy 1 year, 8 months ago

Selected Answer: A

Answer A is correct. Google recommends using an HTTP(S) load balancer for terminating SSL sessions and load-balancing traffic to an instance group serving a public web application over HTTPS.

Answer B is incorrect because it is an internal load balancer, which is not suitable for serving public web applications. Internal load balancers are used for private/internal applications.

Answer C is incorrect because SSL proxy load balancers do not terminate the SSL session, instead they pass the SSL traffic directly to the backends without decrypting it. SSL proxy load balancers are used when you need to ensure that SSL is used end-to-end between the client and the backend, and when you want to offload SSL processing from the backends.

Answer D is incorrect because TCP proxy load balancers do not terminate SSL sessions. TCP proxy load balancers are used for non-HTTP traffic and can balance traffic at the TCP layer, but they do not have the ability to terminate SSL sessions.

👍 ↩ 🚩 upvoted 22 times

🗄️ 👤 [Removed] 1 year, 7 months ago

When using External SSL Proxy Load Balancing for your SSL traffic, user SSL (TLS) connections are terminated at the load balancing layer, and then proxied to the closest available backend instances by using either SSL (recommended) or TCP. For the types of backends that are supported, see Backends.

<https://cloud.google.com/load-balancing/docs/ssl/>

👍 ↩ 🚩 upvoted 1 times

🗄️ 👤 chikorita 1 year, 6 months ago

yo never fail us, my lord!

👍 ↩ 🚩 upvoted 1 times

🗄️ 👤 leogor 1 year, 12 months ago

Selected Answer: A



HTTP(S) load balancer.

👍 ↩ 🚩 upvoted 1 times

🗄️ 👤 AzureDP900 2 years, 4 months ago

I will go with A

   upvoted 1 times

  Akash7 2 years, 4 months ago

A is correct.

According to this guide for setting up an HTTP (S) load balancer in GCP: The client SSL session terminates at the load balancer. Sessions between the load balancer and the instance can either be HTTPS (recommended) or HTTP.

   upvoted 1 times

  haroldbenites 2 years, 5 months ago

Go for C.

It dont say Global balancer.



   upvoted 1 times

  Imttt 2 years, 5 months ago

Selected Answer: A

Correct A

   upvoted 2 times

  karim_chaara 2 years, 10 months ago

Correct answer is A - HTTP LB

for SSL proxy, its doest support HTTP traffic

"SSL Proxy Load Balancing is intended for non-HTTP(S) traffic. For HTTP(S) traffic, we recommend that you use HTTP(S) Load Balancing.

"



<https://cloud.google.com/load-balancing/docs/ssl>

   upvoted 5 times

  shawnkkk 2 years, 11 months ago

A. Configure an HTTP(S) load balancer.

   upvoted 1 times

  vishnukumartr 2 years, 11 months ago

A. Configure an HTTP(S) load balancer.

   upvoted 1 times

  Jaira1256 2 years, 11 months ago



Ans is A

   upvoted 1 times

  Rameshmfm 2 years, 11 months ago

A- please refer the this link - <https://cloud.google.com/load-balancing/docs/choosing-load-balancer>

   upvoted 2 times

  sidharthwader 3 years, 3 months ago

No doubt its answer is (A) in Azure its application gateway. These both are layer 7 traffic load balancer

   upvoted 2 times

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