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Exam Associate Cloud Engineer All Questions

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EXAM ASSOCIATE CLOUD ENGINEER TOPIC 1 QUESTION 63 DISCUSSION

Actual exam question from Google's Associate Cloud Engineer

Question #: 63

Topic #: 1

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You are hosting an application on bare-metal servers in your own data center. The application needs access to Cloud Storage. However, security policies prevent the servers hosting the application from having public IP addresses or access to the internet. You want to follow Google-recommended practices to provide the application with access to Cloud Storage. What should you do?

- A. 1. Use nslookup to get the IP address for storage.googleapis.com. 2. Negotiate with the security team to be able to give a public IP address to the servers. 3. Only allow egress traffic from those servers to the IP addresses for storage.googleapis.com.
- B. 1. Using Cloud VPN, create a VPN tunnel to a Virtual Private Cloud (VPC) in Google Cloud. 2. In this VPC, create a Compute Engine instance and install the Squid proxy server on this instance. 3. Configure your servers to use that instance as a proxy to access Cloud Storage.
- C. 1. Use Migrate for Compute Engine (formerly known as Velostrata) to migrate those servers to Compute Engine. 2. Create an internal load balancer (ILB) that uses storage.googleapis.com as backend. 3. Configure your new instances to use this ILB as proxy.
- D. 1. Using Cloud VPN or Interconnect, create a tunnel to a VPC in Google Cloud. 2. Use Cloud Router to create a custom route advertisement for 199.36.153.4/30. Announce that network to your on-premises network through the VPN tunnel. 3. In your on-premises network, configure your DNS server to resolve *.googleapis.com as a CNAME to restricted.googleapis.com.

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by **poogcp** at June 10, 2020, 12:19 p.m.

Comments

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poogcp Highly Voted 4 years, 4 months ago

D is the correct one as per Ref: <https://cloud.google.com/vpc/docs/configure-private-google-access-hybrid>
upvoted 54 times

obeythefist Highly Voted 2 years, 7 months ago

What messy answers! I chose D and here is my reasoning per answer.

- A. It's bad practice to use nslookup to try find a permanent IP address because IPs can change. That's what DNS is for! Also, the security team aren't going to budge... this is just a silly answer.
B. We're getting warmer. Any time a question mentions on-prem and cloud, Google wants you to think about Cloud VPN. This solution might even work, but installing Squid? This is a messy solution to a more simple problem.
C. Talk about using a sledge hammer to swat a mosquito. I think this could work, but migrating servers to cloud to solve a simple networking problem?
D. Once more Google's favorite Cloud VPN is in the answer. I'm not sure about the networking component of this question.
- upvoted 23 times

obeythefist 2 years, 7 months ago

Edit: Of course the reason D is correct is because 199.36.153.4/30 is the network segment that you can direct traffic to if you want to use Google services "internally". So your on-prem servers will resolve storage.googleapis.com to something in this 199.36.153.4/30 range. Then they will route using Cloud Router and your VPN tunnel into Google Cloud privately.

upvoted 15 times

subha.elumalai Most Recent 5 months ago

C is the correct Answer

upvoted 1 times

BAofBK 11 months, 2 weeks ago

The correct answer is D

upvoted 2 times

gsmasad 11 months, 3 weeks ago

Selected Answer: D

D as per google recommended practices
upvoted 1 times

Captain1212 1 year, 1 month ago

Selected Answer: D

D as per google recommended practices
upvoted 1 times

Buruguduystunstugudunstuy 1 year, 8 months ago

Selected Answer: D

ANSWER D is the recommended solution because it provides a secure and direct connection to Cloud Storage without requiring internet access or exposing the servers to public IP addresses.

* By setting up a VPN or Interconnect tunnel, the on-premises servers can access Google Cloud resources over a private and encrypted connection.

* The custom route advertisement for 199.36.153.4/30 ensures that traffic is routed correctly between the on-premises network and Google Cloud.

* Configuring the DNS server to resolve *.googleapis.com as a CNAME to restricted.googleapis.com ensures that requests are directed to Google Cloud over the VPN or Interconnect tunnel.

upvoted 9 times

warrior9000 1 year, 9 months ago

D but anyone wanna try to explain how the hell you can have a VPN connection without accessing the public internet? The only option for D should be using Interconnect for a direct private wire from your data center to GCP. VPN doesn't make any sense.

upvoted 5 times

ast3citos 1 year, 7 months ago

The machine hosting the application cannot access directly the public internet. So to go to Google Cloud it must go through a VPN.

upvoted 1 times

xaqanik 1 year, 9 months ago

<https://cloud.google.com/vpc/docs/configure-private-google-access-hybrid>

upvoted 3 times

cslince 1 year, 10 months ago

Selected Answer: D

D is the correct

upvoted 1 times

gcpBeginner 2 years ago

correct answer is D. why will cx migrate it env. to GCP. easiest and faster approach is to have Cloud VPN setup and advertise route o cloud router

upvoted 1 times

gcpBeginner 2 years ago

in my above comment I meant advertise routes to local router used on-prem

upvoted 1 times

Cornholio_LMC 2 years ago

had this question today

upvoted 3 times

RAVI321 2 years, 2 months ago

how you all know that everybody

mere to upar se nikal raha hai sab kuch pls help guys

upvoted 5 times

aakash4Chaudhary 2 years ago

tu akela nhi hai bro

upvoted 2 times

Souvik_79 2 years ago

Me too bro

upvoted 1 times

abirroy 2 years, 2 months ago

Selected Answer: D

Answer is D

upvoted 1 times

RanjithK 2 years, 3 months ago

Selected Answer: D

Answer is D

upvoted 1 times

AzureDP900 2 years, 4 months ago

D is most appropriate, This is part of Tutorial Dojo practice questions.

upvoted 1 times

haroldbenites 2 years, 4 months ago

Go for D

upvoted 1 times

luciorifa 2 years, 8 months ago

Selected Answer: D

D is the correct answer

upvoted 2 times

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