

 Google Discussions

Exam Professional Cloud Security Engineer All Questions

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EXAM PROFESSIONAL CLOUD SECURITY ENGINEER TOPIC 1 QUESTION 217 DISCUSSION

Actual exam question from Google's Professional Cloud Security Engineer

Question #: 217

Topic #: 1

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You are routing all your internet facing traffic from Google Cloud through your on-premises internet connection. You want to accomplish this goal securely and with the highest bandwidth possible.

What should you do?

- A. Create an HA VPN connection to Google Cloud. Replace the default 0.0.0.0/0 route.
- B. Create a routing VM in Compute Engine. Configure the default route with the VM as the next hop.
- C. Configure Cloud Interconnect with HA VPN. Replace the default 0.0.0.0/0 route to an on-premises destination.
- D. Configure Cloud Interconnect and route traffic through an on-premises firewall.

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by  [gcp4test](#) at Aug. 4, 2023, 3:03 p.m.

Comments

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 [desertlotus1211](#) 11 months, 4 weeks ago



I'm going to take back my answer - the Answer should be 'D'.... The Internet traffic from GCP is hair-pinning through an Internet connection on-premise, which mean the on-premise has two (2) separate connections; to GCP and to the Internet.... So 'D' make more sense

   upvoted 1 times

  **desertlotus1211** 11 months, 4 weeks ago

The question states 'on-premise Internet connection'.... a Dedicated Interconnect IS NOT an Internet connection. Therefore C & D cannot be the correct choice - that leaves 'A'

   upvoted 1 times

  **Xoxoo** 1 year, 4 months ago



Selected Answer: D

Here's why option D is the recommended choice:

Cloud Interconnect: Google Cloud Interconnect is designed to provide dedicated and high-bandwidth connections between your on-premises network and Google Cloud. It offers higher bandwidth and lower latency compared to typical VPN connections.

On-Premises Firewall: By configuring Cloud Interconnect to route traffic through an on-premises firewall, you can ensure that all traffic between Google Cloud and the internet passes through your organization's firewall for security inspection and enforcement of security policies.

   upvoted 2 times

  **Xoxoo** 1 year, 4 months ago

Option A (Creating an HA VPN connection) is suitable for setting up a VPN connection but may not provide the same high bandwidth as Cloud Interconnect. Additionally, replacing the default 0.0.0.0/0 route with an on-premises destination might not be necessary if you want to route all traffic through your on-premises internet connection.

Option B (Creating a routing VM in Compute Engine) can be used for routing, but it may introduce additional complexity and potential single points of failure.

Option C (Configuring Cloud Interconnect with HA VPN) combines two connectivity methods but may not be necessary if you only want to route traffic through your on-premises internet connection and not through a VPN.

   upvoted 1 times

  **ArizonaClassics** 1 year, 5 months ago

If your objective is to securely route all internet-facing traffic from Google Cloud through your on-premises internet connection with the highest bandwidth possible, you should go for:

D. Configure Cloud Interconnect and route traffic through an on-premises firewall.

Reasons:

Highest Bandwidth: Cloud Interconnect offers higher bandwidth compared to VPN solutions.

Security: You're routing the traffic through an on-premises firewall, which gives you centralized control over security policies.

Stability: Cloud Interconnect is a dedicated connection, making it more reliable compared to VPNs.

Latency: Cloud Interconnect usually provides lower latency than HA VPN solutions, which is beneficial for performance.



   upvoted 1 times

  **cyberpunk21** 1 year, 5 months ago

Selected Answer: D

it's faster than other options

   upvoted 1 times

  **gcp4test** 1 year, 5 months ago

Selected Answer: D

Goal - securely and with the highest bandwidth possible, only Dedicated Interconnect

   upvoted 3 times

  **gcp4test** 1 year, 5 months ago

Might be C, there is also "security" requirments:

<https://cloud.google.com/network-connectivity/docs/interconnect/concepts/ha-vpn-interconnect>

   upvoted 4 times

  **akilaz** 1 year, 5 months ago

"Each HA VPN tunnel can support up to 3 gigabits per second (Gbps) for the sum of ingress and egress traffic. This is a limitation of HA VPN."

<https://cloud.google.com/network-connectivity/docs/vpn/quotas#limits>

"An Interconnect connection is a logical connection to Google, made up of one or more physical circuits. You can request one of the following circuit choices: Up to 2 x 100 Gbps (200-Gbps) circuits."
<https://cloud.google.com/network-connectivity/docs/interconnect/quotas>

D imo

   upvoted 1 times



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