



# PROFESSIONAL-CLOUD-DATABASE-ENGINEER<sup>Q&As</sup>

Google Cloud Certified - Professional Cloud Database Engineer

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### QUESTION 1

Your project is using Bigtable to store data that should not be accessed from the public internet under any circumstances, even if the requestor has a valid service account key. You need to secure access to this data. What should you do?

- A. Use Identity and Access Management (IAM) for Bigtable access control.
- B. Use VPC Service Controls to create a trusted network for the Bigtable service.
- C. Use customer-managed encryption keys (CMEK).
- D. Use Google Cloud Armor to add IP addresses to an allowlist.

Correct Answer: B

"Users can define a security perimeter around Google Cloud resources such as Cloud Storage buckets, Bigtable instances, and BigQuery datasets to constrain data within a VPC and control the flow of data."

<https://cloud.google.com/vpcservice-controls>

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### QUESTION 2

You are configuring the networking of a Cloud SQL instance. The only application that connects to this database resides on a Compute Engine VM in the same project as the Cloud SQL instance. The VM and the Cloud SQL instance both use the same VPC network, and both have an external (public) IP address and an internal (private) IP address. You want to improve network security. What should you do?

- A. Disable and remove the internal IP address assignment.
- B. Disable both the external IP address and the internal IP address, and instead rely on Private Google Access.
- C. Specify an authorized network with the CIDR range of the VM.
- D. Disable and remove the external IP address assignment.

Correct Answer: D

It is always more secure to use an internal IP, so removing them doesn't make sense. Eliminate A. You can use Private Google Access when VM instances only have internal IP addresses, so disabling the internal IPs and use Private Google Access doesn't make sense. Eliminate B. Specifying an authorized network when they're on the same subnet doesn't make sense. Eliminate C. A way to improve network security would be to disable external IPs since they're not needed.

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### QUESTION 3

You are designing a database strategy for a new web application in one region. You need to minimize write latency. What should you do?

- A. Use Cloud SQL with cross-region replicas.
- B. Use high availability (HA) Cloud SQL with multiple zones.



- C. Use zonal Cloud SQL without high availability (HA).
- D. Use Cloud Spanner in a regional configuration.

Correct Answer: D

<https://docs.google.com/forms/d/e/1FAIpQLSfZ77ZnuUL0NpU-bOtO5QUkC0cnRCe5YKMiubLXwfV3abBqkg/viewform>

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#### QUESTION 4

You are designing a payments processing application on Google Cloud. The application must continue to serve requests and avoid any user disruption if a regional failure occurs. You need to use AES-256 to encrypt data in the database, and you want to control where you store the encryption key. What should you do?

- A. Use Cloud Spanner with a customer-managed encryption key (CMEK).
- B. Use Cloud Spanner with default encryption.
- C. Use Cloud SQL with a customer-managed encryption key (CMEK).
- D. Use Bigtable with default encryption.

Correct Answer: A

Yes default encryption comes with AES-256 but the question states that you need to control where you store the encryption keys. that can be achieved by CMEK.

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#### QUESTION 5

Your company is shutting down their on-premises data center and migrating their Oracle databases using Oracle Real Application Clusters (RAC) to Google Cloud. You want minimal to no changes to the applications during the database migration. What should you do?

- A. Migrate the Oracle databases to Cloud Spanner.
- B. Migrate the Oracle databases to Compute Engine.
- C. Migrate the Oracle databases to Cloud SQL.
- D. Migrate the Oracle databases to Bare Metal Solution for Oracle.

Correct Answer: D

This answer is correct because Bare Metal Solution for Oracle is a service that provides dedicated physical servers and networking infrastructure for running Oracle databases on Google Cloud<sup>1</sup>. Bare Metal Solution for Oracle supports Oracle RAC, which is a cluster database that provides high availability, scalability, and performance for Oracle workloads<sup>2</sup>. By using Bare Metal Solution for Oracle, you can migrate your Oracle databases with minimal to no changes to the applications, and you can leverage the native Google Cloud services and interconnectivity<sup>1</sup>.

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