

PRACTICE QUESTIONS

Google Cloud

Professional Cloud Database Engineer

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EDITION Free Set 1

QUESTIONS 10

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EXAM Google Cloud Professional Cloud Database Engineer

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10 practice questions for the Google Cloud Professional Cloud Database Engineer exam, each followed by its answer and a short explanation. More free sets and the full practice exam:

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1. Which Cloud SQL high availability option keeps a standby instance in a different zone of the same region?
 - A Zonal instance with automated backups
 - B Regional instance with high availability enabled
 - C Read replica in another region
 - D Cross-region failover replica with manual promotion

Answer: B

A regional configuration replicates to a standby in another zone and fails over automatically. A read replica is the tempting distractor because it also runs in another location, but replicas serve reads and are promoted manually, which is not high availability.

2. For a globally consistent relational database with horizontal scale, Google recommends Cloud _____ over Cloud SQL.

Answer: Spanner (also accepted: Cloud Spanner)

Cloud Spanner is the global relational option with external consistency and horizontal scale. Cloud SQL is the tempting distractor because the same question names a relational engine, but it does not scale writes horizontally across regions.

3. Which migration approach keeps the source database writable until cutover and then promotes the Cloud SQL replica?
 - A One-time export and import during a weekend window
 - B Manual copy of data files with rsync
 - C Continuous replication followed by a planned cutover
 - D Dual writes from the application to both databases forever

Answer: C

Continuous replication keeps the target synchronized, so the cutover window is short. A one-time export is the tempting distractor because it is simpler, but it requires the source to be frozen for the full copy.

4. Database Migration Service can migrate from a source that is on premises or in another cloud, provided network connectivity to the destination is configured.

- A True
- B False

Answer: A (True)

DMS needs network connectivity such as VPN or interconnect to the destination, but the source can be outside Google Cloud. Believing that only Compute Engine sources are supported is the tempting misreading.

5. Which two statements about backups and recovery are correct? (Choose two.)

- A Exports and automated backups serve different recovery needs
- B A backup is the same as a read replica for failover
- C Backups are always restored in place without a new instance
- D Restoring to a new instance avoids overwriting the production database
- E Deleting an instance removes its backups in every case

Answer: A, D

Restoring to a new instance keeps production intact while you verify data, and exports and automated backups suit different needs. Backups are not a failover copy, restores do not have to be in place, and retained backups are kept according to policy, so those are the tempting wrong answers.

6. Which Cloud SQL feature increases storage capacity automatically as data grows?

- A Read pool autoscaling by CPU
- B Automatic backup retention
- C Automatic storage increase
- D Point-in-time recovery of the instance

Answer: C

Automatic storage increase adds disk space when the instance nears its limit. Point-in-time recovery is the tempting distractor because it relates to data protection, but it restores past data rather than adding capacity.

7. An application connects to Cloud SQL over private IP. What must be configured in the VPC for private connectivity?
- A A public IP with an authorized network for 0.0.0.0/0
 - B A Cloud NAT gateway on every subnet
 - C A Serverless VPC Access connector for the instance
 - D Private services access with an allocated IP range

Answer: D

Private services access allocates an IP range and peers it with the Google service network that hosts Cloud SQL. Public IP with an open authorized network is the tempting distractor because it also connects, but it exposes the instance publicly.

8. Cloud SQL and Spanner use a _____ to make a database resilient to a zone outage in a regional or multi-region setup.

Answer: standby (also accepted: replica)

A standby or replica in another zone is what allows failover after a zone failure. A backup is the tempting distractor because it protects data, but it is not an immediately available copy.

9. A Cloud SQL instance has high CPU because one query lacks an index. Which first action is most effective?
- A Increase the storage size
 - B Add an index on the query's filter and join columns
 - C Add a second zone to the instance
 - D Disable automated backups

Answer: B

Adding a matching index usually reduces the rows scanned and CPU cost. Increasing storage is the tempting distractor because it also changes the instance, but it does not reduce query work.

10. Which Cloud Logging feature lets you query slow query logs from a Cloud SQL instance?
- A Cloud Storage lifecycle rule
 - B Compute Engine serial console
 - C Log Explorer with a filter on the database log type
 - D Pub/Sub topic subscription list

Answer: C

Log Explorer filters database logs by resource and log type. The serial console is the tempting distractor because it shows instance output, but it is for VM boot and system messages.