

Google High-quality Professional-Cloud-Architect Valid Exam Duration—Pass Professional-Cloud-Architect First Attempt



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Designing for Compliance and Security

- Design for compliance: this covers one's knowledge of legislation (health record privacy, data privacy, ownership, and children's privacy); commercial (sensitive data handling and personally identifiable information); industry certifications (SOC 2); audits (such as logs).
- Design for security: the learners need to gain knowledge of penetration testing; identity and access management; resource hierarchy; separation of duties; security control; data security; customer-managed encryption key management with Cloud KMS;

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Google Professional-Cloud-Architect certification exam tests candidates on their ability to design and plan cloud solution architectures, manage and provision the infrastructure, ensure security and compliance, optimize performance and scalability, and troubleshoot and resolve issues. Professional-Cloud-Architect Exam covers a range of topics such as cloud architecture, infrastructure, security, data storage, networking, and application development.

Google Certified Professional - Cloud Architect (GCP) Sample Questions (Q49-Q54):

NEW QUESTION # 49

Your customer wants to do resilience testing of their authentication layer. This consists of a regional managed instance group serving a public REST API that reads from and writes to a Cloud SQL instance.

What should you do?

- A. Schedule a disaster simulation exercise during which you can shut off all VMs in a zone to see how your application behaves.
- B. Deploy intrusion detection software to your virtual machines to detect and log unauthorized access.
- C. Configure a red replica for your Cloud SQL instance in a different zone than the master, and then manually trigger a failover while monitoring KPIs for our REST API.
- D. Engage with a security company to run web scrapes that look your users' authentication data on malicious websites and notify you if any if found.

Answer: C

Explanation:

Resilience testing is a crucial step in ensuring applications perform well in real-life conditions. It is part of the non-functional sector of software testing that also .

NEW QUESTION # 50

You need to deploy an application to Google Cloud. The application receives traffic via TCP and reads and writes data to the filesystem. The application does not support horizontal scaling. The application process requires full control over the data on the file system because concurrent access causes corruption. The business is willing to accept a downtime when an incident occurs, but the application must be available 24/7 to support their business operations. You need to design the architecture of this application on Google Cloud.

What should you do?

- A. Use an unmanaged instance group with an active and standby instance in different zones, use a regional persistent disk, and use an HTTP load balancer in front of the instances.
- B. Use a managed instance group with instances in multiple zones, use Cloud Filestore, and use a network load balancer in front of the instances.
- C. Use an unmanaged instance group with an active and standby instance in different zones, use a regional persistent disk, and use a network load balancer in front of the instances.
- D. Use a managed instance group with instances in multiple zones, use Cloud Filestore, and use an HTTP load balancer in front of the instances.

Answer: C

Explanation:

Reference: <https://cloud.google.com/compute/docs/instance-groups>

NEW QUESTION # 51

For this question, refer to the Dress4Win case study.

At Dress4Win, an operations engineer wants to create a low-cost solution to remotely archive copies of database backup files. The database files are compressed tar files stored in their current data center. How should he proceed?

- A. Create a Cloud Storage Transfer Service job to copy the files to a Regional Storage bucket.
- B. Create a cron script using gsutil to copy the files to a Regional Storage bucket.

- C. Create a Cloud Storage Transfer Service Job to copy the files to a Coldline Storage bucket.
- **D. Create a cron script using gsutil to copy the files to a Coldline Storage bucket.**

Answer: D

Explanation:

Follow these rules of thumb when deciding whether to use gsutil or Storage Transfer Service:

- * When transferring data from an on-premises location, use gsutil.
- * When transferring data from another cloud storage provider, use Storage Transfer Service.
- * Otherwise, evaluate both tools with respect to your specific scenario.

Use this guidance as a starting point. The specific details of your transfer scenario will also help you determine which tool is more appropriate

NEW QUESTION # 52

Mountkirk Games wants you to design their new testing strategy. How should the test coverage differ from their existing backends on the other platforms?

- A. Tests should include directly testing the Google Cloud Platform (GCP) infrastructure
- B. Unit tests are no longer required, only end-to-end tests
- C. Tests should be applied after the release is in the production environment
- **D. Tests should scale well beyond the prior approaches**

Answer: D

Explanation:

From Scenario:

A few of their games were more popular than expected, and they had problems scaling their application servers, MySQL databases, and analytics tools.

Requirements for Game Analytics Platform include: Dynamically scale up or down based on game activity

NEW QUESTION # 53

One of your primary business objectives is being able to trust the data stored in your application.

You want to log all changes to the application data. How can you design your logging system to verify authenticity of your logs?

- **A. Create a JSON dump of each log entry and store it in Google Cloud Storage.**
- B. Write the log concurrently in the cloud and on premises.
- C. Use a SQL database and limit who can modify the log table.
- D. Digitally sign each timestamp and log entry and store the signature.

Answer: A

Explanation:

Write a log entry. If the log does not exist, it is created. You can specify a severity for the log entry, and you can write a structured log entry by specifying --payload-type=json and writing your message as a JSON string:

gcloud logging write LOG STRING

gcloud logging write LOG JSON-STRING --payload-type=json

References: <https://cloud.google.com/logging/docs/reference/tools/gcloud-logging>

NEW QUESTION # 54

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