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Google Professional-Cloud-Architect certification is a valuable certification for professionals who are responsible for designing, developing, and managing solutions using Google Cloud technologies. Google Certified Professional - Cloud Architect (GCP) certification validates the skills of an individual in designing solutions that are highly available, scalable, and secure. Google Certified Professional - Cloud Architect (GCP) certification is highly valued in the industry and is recognized by many organizations as a standard for cloud architects.

The GCP certification exam covers a wide range of topics related to cloud architecture, including designing and planning a cloud solution architecture, managing and provisioning infrastructure, ensuring security and compliance, and optimizing technical and business processes. Professional-Cloud-Architect Exam is designed to assess the candidate's ability to design, develop, and manage scalable, efficient, and secure cloud solutions using GCP technologies.

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## What is the duration, language, and format of Google Professional Cloud Architect Exam

- Length of Examination: 120 minutes
- Number of Questions: 50-60
- Recommended experience: 3+ years of industry experience including 1+ years designing and managing solutions using GCP

- Passing score: 80%
- Format: Multiple choices, multiple answers

## Google Certified Professional - Cloud Architect (GCP) Sample Questions (Q126-Q131):

### NEW QUESTION # 126

Your company has successfully migrated to the cloud and wants to analyze their data stream to optimize operations. They do not have any existing code for this analysis, so they are exploring all their options. These options include a mix of batch and stream processing, as they are running some hourly jobs and live-processing some data as it comes in. Which technology should they use for this?

- **A. Google Cloud Dataflow**
- B. Google Container Engine with Bigtable
- C. Google Compute Engine with Google BigQuery
- D. Google Cloud Dataproc

**Answer: A**

Explanation:

Cloud Dataflow is a fully-managed service for transforming and enriching data in stream (real time) and batch (historical) modes with equal reliability and expressiveness -- no more complex workarounds or compromises needed.

References: <https://cloud.google.com/dataflow/>

### NEW QUESTION # 127

For this question, refer to the Dress4Win case study.

As part of their new application experience, Dress4Win allows customers to upload images of themselves. The customer has exclusive control over who may view these images. Customers should be able to upload images with minimal latency and also be shown their images quickly on the main application page when they log in.

Which configuration should Dress4Win use?

- A. Use a distributed file system to store customers' images. As storage needs increase, add more persistent disks and/or nodes. Use a Google Cloud SQL database to maintain metadata that maps each customer's ID to their image files.
- B. Store image files in a Google Cloud Storage bucket. Add custom metadata to the uploaded images in Cloud Storage that contains the customer's unique ID.
- **C. Store image files in a Google Cloud Storage bucket. Use Google Cloud Datastore to maintain metadata that maps each customer's ID and their image files.**
- D. Use a distributed file system to store customers' images. As storage needs increase, add more persistent disks and/or nodes. Assign each customer a unique ID, which sets each file's owner attribute, ensuring privacy of images.

**Answer: C**

### NEW QUESTION # 128

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

**Answer: A**

### NEW QUESTION # 129

TerramEarth has about 1 petabyte (PB) of vehicle testing data in a private data center. You want to move the data to Cloud Storage for your machine learning team. Currently, a 1-Gbps interconnect link is available for you. The machine learning team wants to start

using the data in a month. What should you do?

- A. Configure the Storage Transfer service from Google Cloud to send the data from your data center to Cloud Storage
- **B. Request Transfer Appliances from Google Cloud, export the data to appliances, and return the appliances to Google Cloud.**
- C. Make sure there are no other users consuming the 1 Gbps link, and use multi-thread transfer to upload the data to Cloud Storage.
- D. Export files to an encrypted USB device, send the device to Google Cloud, and request an import of the data to Cloud Storage

**Answer: B**

Explanation:

Topic 7, Mountkirk Games Case 2

Company Overview

Mountkirk Games makes online, session-based, multiplayer games for mobile platforms. They build all of their games using some server-side integration. Historically, they have used cloud providers to lease physical servers.

Due to the unexpected popularity of some of their games, they have had problems scaling their global audience, application servers, MySQL databases, and analytics tools.

Their current model is to write game statistics to files and send them through an ETL tool that loads them into a centralized MySQL database for reporting.

Solution Concept

Mountkirk Games is building a new game, which they expect to be very popular. They plan to deploy the game's backend on Google Compute Engine so they can capture streaming metrics, run intensive analytics, and take advantage of its autoscaling server environment and integrate with a managed NoSQL database.

Business Requirements

Increase to a global footprint.

Improve uptime - downtime is loss of players.

Increase efficiency of the cloud resources we use.

Reduce latency to all customers.

Technical Requirements

Requirements for Game Backend Platform

Dynamically scale up or down based on game activity.

Connect to a transactional database service to manage user profiles and game state.

Store game activity in a timeseries database service for future analysis.

As the system scales, ensure that data is not lost due to processing backlogs.

Run hardened Linux distro.

Requirements for Game Analytics Platform

Dynamically scale up or down based on game activity

Process incoming data on the fly directly from the game servers

Process data that arrives late because of slow mobile networks

Allow queries to access at least 10 TB of historical data

Process files that are regularly uploaded by users' mobile devices

Executive Statement

Our last successful game did not scale well with our previous cloud provider, resulting in lower user adoption and affecting the game's reputation. Our investors want more key performance indicators (KPIs) to evaluate the speed and stability of the game, as well as other metrics that provide deeper insight into usage patterns so we can adapt the game to target users. Additionally, our current technology stack cannot provide the scale we need, so we want to replace MySQL and move to an environment that provides autoscaling, low latency load balancing, and frees us up from managing physical servers.

### NEW QUESTION # 130

Your operations team has asked you to help diagnose a performance issue in a production application that runs on Compute Engine. The application is dropping requests that reach it when under heavy load. The process list for affected instances shows a single application process that is consuming all available CPU, and autoscaling has reached the upper limit of instances. There is no abnormal load on any other related systems, including the database. You want to allow production traffic to be served again as quickly as possible. Which action should you recommend?

- A. Restart the affected instances on a staggered schedule.
- **B. Increase the maximum number of instances in the autoscaling group.**
- C. Change the autoscaling metric to `agent.googleapis.com/memory/percent_used`.

