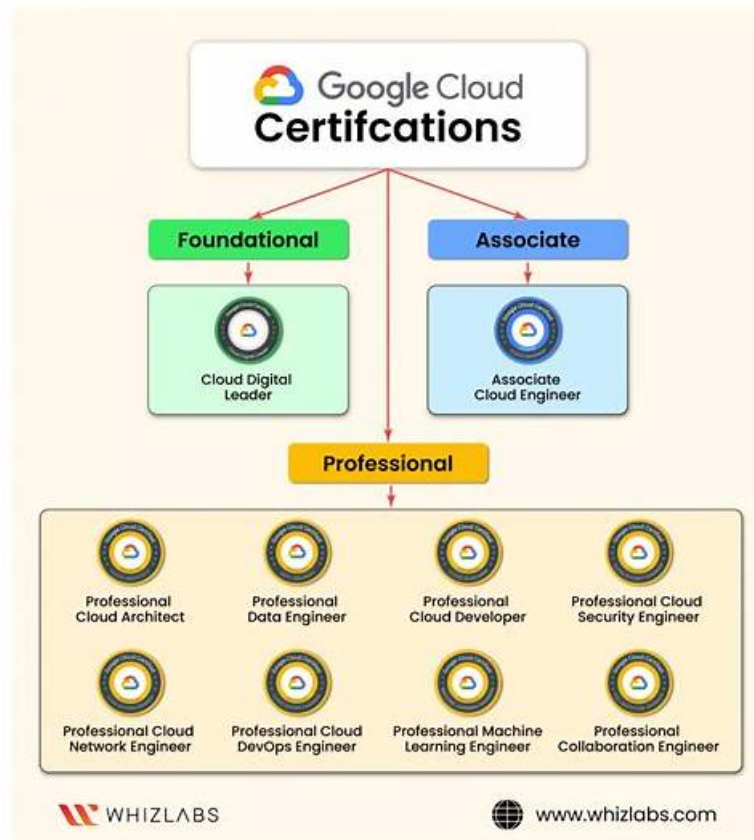


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## Google Certified Professional - Cloud Architect (GCP) Sample Questions (Q372-Q377):

### NEW QUESTION # 372

You are tasked with building an online analytical processing (OLAP) marketing analytics and reporting tool. This requires a relational database that can operate on hundreds of terabytes of data. What is the Google- recommended tool for such applications?

- A. Cloud SQL, because it is a fully managed relational database
- B. Cloud Firestore, because it offers real-time synchronization across devices
- C. BigQuery, because it is designed for large-scale processing of tabular data
- D. Cloud Spanner, because it is globally distributed

**Answer: C**

Explanation:

Explanation/Reference: <https://cloud.google.com/files/BigQueryTechnicalWP.pdf>

### NEW QUESTION # 373

For this question, refer to the Dress4Win case study. You are responsible for the security of data stored in Cloud Storage for your company, Dress4Win. You have already created a set of Google Groups and assigned the appropriate users to those groups. You should use Google best practices and implement the simplest design to meet the requirements.

Considering Dress4Win's business and technical requirements, what should you do?

- A. Assign predefined IAM roles to the Google Groups you created in order to enforce security requirements. Utilize Google's default encryption at rest when storing files in Cloud Storage.
- B. Assign custom IAM roles to the Google Groups you created in order to enforce security requirements. Enable default storage encryption before storing files in Cloud Storage.
- C. Assign predefined IAM roles to the Google Groups you created in order to enforce security requirements. Ensure that the default Cloud KMS key is set before storing files in Cloud Storage.
- D. Assign custom IAM roles to the Google Groups you created in order to enforce security requirements. Encrypt data with a customer-supplied encryption key when storing files in Cloud Storage.

**Answer: C**

Explanation:

Explanation

<https://cloud.google.com/iam/docs/understanding-service-accounts>

Topic 6, TerramEarth Case 2

Company Overview

TerramEarth manufactures heavy equipment for the mining and agricultural industries. About 80% of their business is from mining and 20% from agriculture. They currently have over 500 dealers and service centers in 100 countries. Their mission is to build products that make their customers more productive.

Solution Concept

There are 20 million TerramEarth vehicles in operation that collect 120 fields of data per second. Data is stored locally on the vehicle and can be accessed for analysis when a vehicle is serviced. The data is downloaded via a maintenance port. This same port can be used to adjust operational parameters, allowing the vehicles to be upgraded in the field with new computing modules.

Approximately 200,000 vehicles are connected to a cellular network, allowing TerramEarth to collect data directly. At a rate of 120 fields of data per second with 22 hours of operation per day, TerramEarth collects a total of about 9 TB/day from these connected vehicles.

Existing Technical Environment

TerramEarth's existing architecture is composed of Linux and Windows-based systems that reside in a single U.S. west coast based data center. These systems gzip CSV files from the field and upload via FTP, and place the data in their data warehouse. Because this process takes time, aggregated reports are based on data that is 3 weeks old.

With this data, TerramEarth has been able to preemptively stock replacement parts and reduce unplanned downtime of their vehicles by 60%. However, because the data is stale, some customers are without their vehicles for up to 4 weeks while they wait for replacement parts.

Business Requirements

Decrease unplanned vehicle downtime to less than 1 week.

Support the dealer network with more data on how their customers use their equipment to better position new products and services  
Have the ability to partner with different companies - especially with seed and fertilizer suppliers in the fast-growing agricultural business - to create compelling joint offerings for their customers.

Technical Requirements

Expand beyond a single datacenter to decrease latency to the American Midwest and east coast.

Create a backup strategy.

Increase security of data transfer from equipment to the datacenter.

Improve data in the data warehouse.

Use customer and equipment data to anticipate customer needs.

Application 1: Data ingest

A custom Python application reads uploaded datafiles from a single server, writes to the data warehouse.

Compute:

Windows Server 2008 R2

- 16 CPUs

- 128 GB of RAM

- 10 TB local HDD storage

Application 2: Reporting

An off the shelf application that business analysts use to run a daily report to see what equipment needs repair.

Only 2 analysts of a team of 10 (5 west coast, 5 east coast) can connect to the reporting application at a time.

Compute:

Off the shelf application. License tied to number of physical CPUs

- Windows Server 2008 R2

- 16 CPUs

- 32 GB of RAM

- 500 GB HDD

Data warehouse:

A single PostgreSQL server

- RedHat Linux

- 64 CPUs

- 128 GB of RAM

- 4x 6TB HDD in RAID 0

Executive Statement

Our competitive advantage has always been in the manufacturing process, with our ability to build better vehicles for lower cost than our competitors. However, new products with different approaches are constantly being developed, and I'm concerned that we lack the skills to undergo the next wave of transformations in our industry. My goals are to build our skills while addressing immediate market needs through incremental innovations.

#### NEW QUESTION # 374

For this question, refer to the Mountkirk Games case study. You are in charge of the new Game Backend Platform architecture. The game communicates with the backend over a REST API.

You want to follow Google-recommended practices. How should you design the backend?

- A. Create an instance template for the backend. For every region, deploy it on a multi-zone managed instance group. Use an L7 load balancer.
- B. Create an instance template for the backend. For every region, deploy it on a single-zone managed instance group. Use an L4 load balancer.
- C. Create an instance template for the backend. For every region, deploy it on a multi-zone managed instance group. Use an L4 load balancer.
- D. Create an instance template for the backend. For every region, deploy it on a single-zone managed instance group. Use an L7 load balancer.

**Answer: A**

#### NEW QUESTION # 375

For this question, refer to the TerramEarth case study. You are asked to design a new architecture for the ingestion of the data of the 200,000 vehicles that are connected to a cellular network. You want to follow Google-recommended practices.

Considering the technical requirements, which components should you use for the ingestion of the data?

- A. Cloud IoT Core with public/private key pairs
- B. Compute Engine with specific SSH keys
- C. Compute Engine with project-wide SSH keys
- D. Google Kubernetes Engine with an SSL Ingress

**Answer: D**

Explanation:

Explanation/Reference:

Testlet 1

Company Overview

Dress4win is a web-based company that helps their users organize and manage their personal wardrobe using a website and mobile application. The company also cultivates an active social network that connects their users with designers and retailers. They monetize their services through advertising, e-commerce, referrals, and a premium app model.

Company Background

Dress4win's application has grown from a few servers in the founder's garage to several hundred servers and appliances in a collocated data center. However, the capacity of their infrastructure is now insufficient for the application's rapid growth. Because of this growth and the company's desire to innovate faster, Dress4win is committing to a full migration to a public cloud.

Solution Concept

For the first phase of their migration to the cloud, Dress4win is considering moving their development and test environments. They are also considering building a disaster recovery site, because their current infrastructure is at a single location. They are not sure which components of their architecture they can migrate as is and which components they need to change before migrating them.

Existing Technical Environment

The Dress4win application is served out of a single data center location.

Databases:

- - MySQL - user data, inventory, static data
- Redis - metadata, social graph, caching

Application servers:

- - Tomcat - Java micro-services
- Nginx - static content
- Apache Beam - Batch processing

Storage appliances:

- - iSCSI for VM hosts
- Fiber channel SAN - MySQL databases
- NAS - image storage, logs, backups

Apache Hadoop/Spark servers:

- - Data analysis
- Real-time trending calculations

MQ servers:

- - Messaging
- Social notifications
- Events

Miscellaneous servers:

- - Jenkins, monitoring, bastion hosts, security scanners

Business Requirements

Build a reliable and reproducible environment with scaled parity of production.

□ Improve security by defining and adhering to a set of security and Identity and Access Management (IAM) best practices for cloud.

□ Improve business agility and speed of innovation through rapid provisioning of new resources.

□ Analyze and optimize architecture for performance in the cloud.

□ Migrate fully to the cloud if all other requirements are met.

□ Technical Requirements

Evaluate and choose an automation framework for provisioning resources in cloud.

□ Support failover of the production environment to cloud during an emergency.

□ Identify production services that can migrate to cloud to save capacity.

□

Use managed services whenever possible.

□ Encrypt data on the wire and at rest.

□ Support multiple VPN connections between the production data center and cloud environment.

□ CEO Statement

Our investors are concerned about our ability to scale and contain costs with our current infrastructure.

They are also concerned that a new competitor could use a public cloud platform to offset their up-front investment and freeing them to focus on developing better features.

□ CTO Statement

We have invested heavily in the current infrastructure, but much of the equipment is approaching the end of its useful life. We are consistently waiting weeks for new gear to be racked before we can start new projects. Our traffic patterns are highest in the mornings and weekend evenings; during other times, 80% of our capacity is sitting idle.

□ CFO Statement

Our capital expenditure is now exceeding our quarterly projections. Migrating to the cloud will likely cause an initial increase in spending, but we expect to fully transition before our next hardware refresh cycle. Our total cost of ownership (TCO) analysis over the next 5 years puts a cloud strategy between 30 to 50% lower than our current model.

### NEW QUESTION # 376

For this question, refer to the EHR Healthcare case study. You are responsible for ensuring that EHR's use of Google Cloud will pass an upcoming privacy compliance audit. What should you do? (Choose two.)

- A. Verify EHR's product usage against the list of compliant products on the Google Cloud compliance page.
- B. Implement Prometheus to detect and prevent security breaches on EHR's web-based applications.
- C. Use Firebase Authentication for EHR's user facing applications.
- D. Use GKE private clusters for all Kubernetes workloads.
- E. Advise EHR to execute a Business Associate Agreement (BAA) with Google Cloud.

**Answer: A,E**

Explanation:

<https://cloud.google.com/security/compliance/hipaa>

### NEW QUESTION # 377

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