

Professional-Cloud-Architect Pass4sure Questions & Professional-Cloud-Architect Vce Training & Professional-Cloud-Architect Free Demo



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Google Professional-Cloud-Architect Exam is a certification offered by Google for those who want to become a Google Certified Professional - Cloud Architect (GCP). Professional-Cloud-Architect exam is designed to test the knowledge and skills of individuals who are responsible for designing, developing, and managing solutions using the Google Cloud Platform (GCP).

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Who should take the Google Professional Cloud Architect exam

Individuals should pursue the **Google Professional Cloud Architect Exam** if they want to demonstrate their expertise and ability to design and develop Google Cloud architectures. It's perfect for solutions and/or enterprise architects, systems administrators or operations team members or simply any professional who wants in on this specific area of IT and cloud.

Google Certified Professional - Cloud Architect (GCP) Sample Questions (Q144-Q149):

NEW QUESTION # 144

Case Study: 2 - TerramEarth Case Study

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.

Company Background

TerramEarth formed in 1946, when several small, family owned companies combined to retool after World War II. The company cares about their employees and customers and considers them to be extended members of their family.

TerramEarth is proud of their ability to innovate on their core products and find new markets as their customers' needs change. For the past 20 years trends in the industry have been largely toward increasing productivity by using larger vehicles with a human operator.

Solution Concept

There are 20 million TerramEarth vehicles in operation that collect 120 fields of data per second.

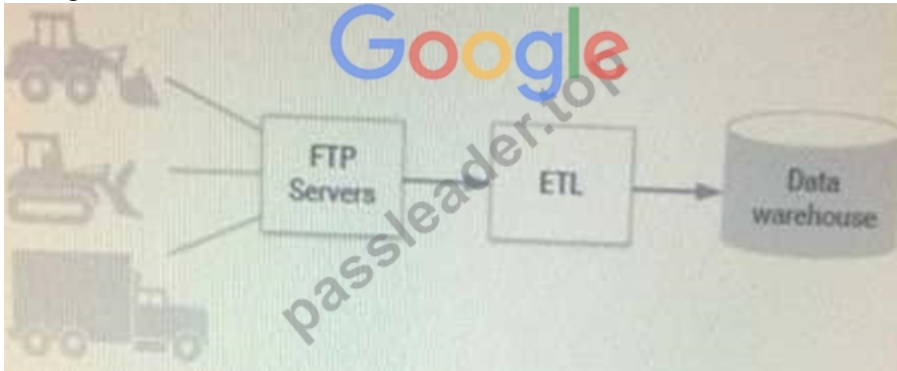
Data is stored locally on the vehicle and can be accessed for analysis when a vehicle is serviced.

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-based systems that reside in a data center. These systems gzip CSV files from the field and upload via FTP, transform and aggregate them, 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, without increasing the cost of carrying surplus inventory
- Support the dealer network with more data on how their customers use their equipment IP 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

CEO Statement

We have been successful in capitalizing on the trend toward larger vehicles to increase the productivity of our customers.

Technological change is occurring rapidly and TerramEarth has taken advantage of connected devices technology to provide our customers with better services, such as our intelligent farming equipment. With this technology, we have been able to increase farmers' yields by 25%, by using past trends to adjust how our vehicles operate. These advances have led to the rapid growth of our agricultural product line, which we expect will generate 50% of our revenues by 2020.

CTO Statement

Our competitive advantage has always been in the manufacturing process with our ability to build better vehicles for tower 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. Unfortunately, our CEO doesn't take technology obsolescence seriously and he considers the many new companies in our industry to be niche players. My goals are to build our skills while addressing immediate market needs through incremental innovations.

Your agricultural division is experimenting with fully autonomous vehicles. You want your architecture to promote strong security during vehicle operation.

Which two architectures should you consider? (Choose two.)

- A. Treat every micro service call between modules on the vehicle as untrusted.
- B. Use a trusted platform module (TPM) and verify firmware and binaries on boot.
- C. Use multiple connectivity subsystems for redundancy.
- D. Require IPv6 for connectivity to ensure a secure address space.
- E. Enclose the vehicle's drive electronics in a Faraday cage to isolate chips.
- F. Use a functional programming language to isolate code execution cycles.

Answer: B,E

NEW QUESTION # 145

For this question, refer to the TerramEarth case study.

TerraEarth plans to connect all 20 million vehicles in the field to the cloud. This increases the volume to 20 million 600 byte records a second for 40 TB an hour. How should you design the data ingestion?

- A. Vehicles continue to write data using the existing system (FTP).
- B. Vehicles write data directly to Google Cloud Pub/Sub.
- **C. Vehicles stream data directly to Google BigQuery.**
- D. Vehicles write data directly to GCS.

Answer: C

Explanation:

Explanation

Streamed data is available for real-time analysis within a few seconds of the first streaming insertion into a table.

Instead of using a job to load data into BigQuery, you can choose to stream your data into BigQuery one record at a time by using the `tabledata().insertAll()` method. This approach enables querying data without the delay of running a load job.

References: <https://cloud.google.com/bigquery/streaming-data-into-bigquery>

NEW QUESTION # 146

You have deployed an application to Kubernetes Engine, and are using the Cloud SQL proxy container to make the Cloud SQL database available to the services running on Kubernetes. You are notified that the application is reporting database connection issues. Your company policies require a post-mortem. What should you do?

- A. Use `gcloud sql instances restart`.
- B. Validate that the Service Account used by the Cloud SQL proxy container still has the Cloud Build Editor role.
- C. In the GCP Console, navigate to Cloud SQL. Restore the latest backup. Use `kubectl` to restart all pods.
- **D. In the GCP Console, navigate to Stackdriver Logging. Consult logs for Kubernetes Engine and Cloud SQL.**

Answer: D

NEW QUESTION # 147

You want to optimize the performance of an accurate, real-time, weather-charting application.

The data comes from 50,000 sensors sending 10 readings a second, in the format of a timestamp and sensor reading. Where should you store the data?

- A. Google BigQuery
- B. Google Cloud Storage
- C. Google Cloud SQL
- **D. Google Cloud Bigtable**

Answer: D

Explanation:

Google Cloud Bigtable is a scalable, fully-managed NoSQL wide-column database that is suitable for both real-time access and analytics workloads.

Good for:

Low-latency read/write access

* High-throughput analytics

* Native time series support

* Common workloads:

IoT, finance, adtech

* Personalization, recommendations

* Monitoring

* Geospatial datasets

* Graphs

* References: <https://cloud.google.com/storage-options/>

NEW QUESTION # 148

You are analyzing and defining business processes to support your startup's trial usage of GCP, and you don't yet know what

consumer demand for your product will be. Your manager requires you to minimize GCP service costs and adhere to Google best practices. What should you do?

- A. Utilize free tier and sustained use discounts. Provide training to the team about service cost management.
- B. Utilize free tier and committed use discounts. Provision a staff position for service cost management.
- C. Utilize free tier and sustained use discounts. Provision a staff position for service cost management.
- D. Utilize free tier and committed use discounts. Provide training to the team about service cost management.

Answer: D

Explanation:

Explanation

https://cloud.google.com/docs/enterprise/best-practices-for-enterprise-organizations#billing_and_management

NEW QUESTION # 149

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