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Recommended Experience

Officially, there are no prerequisites to be fulfilled before taking-up the Google Professional Cloud Architect exam. Anyone who wants to polish their knowledge of Google Cloud and aim at an architect role can apply for it.

However, it is recommended to have a minimum of 3+ years of industry experience before anyone enrolls in the test. These should also include 1+ years of experience in designing solutions as well as managing them using GCP. Such a base will make the exam journey a bit more simplified.

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To become a Google Certified Professional - Cloud Architect (GCP), a candidate must pass the Professional-Cloud-Architect certification exam. Professional-Cloud-Architect exam consists of multiple-choice and scenario-based questions that test the candidate's ability to design, manage, and secure cloud solutions on GCP. Professional-Cloud-Architect Exam is proctored and can be taken online or at a testing center.

Google Certified Professional - Cloud Architect (GCP) Sample Questions (Q210-Q215):

NEW QUESTION # 210

For this question, refer to the JencoMart case study.

The JencoMart security team requires that all Google Cloud Platform infrastructure is deployed using a least privilege model with separation of duties for administration between production and development resources.

What Google domain and project structure should you recommend?

- A. Create two G Suite accounts to manage users: one for development/test/staging and one for production. Each account should contain one project for every application.
- B. Create a single G Suite account to manage users with each stage of each application in its own project.
- C. Create two G Suite accounts to manage users: one with a single project for all development applications and one with a single project for all production applications.
- D. **Create a single G Suite account to manage users with one project for the development/test/staging environment and one project for the production environment.**

Answer: D

Explanation:

Note: The principle of least privilege and separation of duties are concepts that, although semantically different, are intrinsically related from the standpoint of security. The intent behind both is to prevent people from having higher privilege levels than they actually need. Principle of Least Privilege: Users should only have the least amount of privileges required to perform their job and no more. This reduces authorization exploitation by limiting access to resources such as targets, jobs, or monitoring templates for which they are not authorized.

Separation of Duties: Beyond limiting user privilege level, you also limit user duties, or the specific jobs they can perform. No user should be given responsibility for more than one related function. This limits the ability of a user to perform a malicious action and then cover up that action.

References: <https://cloud.google.com/kms/docs/separation-of-duties>

NEW QUESTION # 211

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 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. 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.

For this question, refer to the TerramEarth case study. You analyzed TerramEarth's business requirement to reduce downtime, and found that they can achieve a majority of time saving by reducing customers' wait time for parts. You decided to focus on reduction of the 3 weeks aggregate reporting time. Which modifications to the company's processes should you recommend?

- A. Migrate from FTP to SFTP transport, develop machine learning analysis of metrics, and increase dealer local inventory by a fixed factor.
- B. Migrate from CSV to binary format, migrate from FTP to SFTP transport, and develop machine learning analysis of metrics.
- C. Migrate from FTP to streaming transport, migrate from CSV to binary format, and develop machine learning analysis of metrics.
- D. Increase fleet cellular connectivity to 80%, migrate from FTP to streaming transport, and develop machine learning analysis of metrics.

Answer: D

Explanation:

The Avro binary format is the preferred format for loading compressed data. Avro data is faster to load because the data can be read in parallel, even when the data blocks are compressed.

Cloud Storage supports streaming transfers with the gsutil tool or boto library, based on HTTP chunked transfer encoding.

Streaming data lets you stream data to and from your Cloud Storage account as soon as it becomes available without requiring that the data be first saved to a separate file. Streaming transfers are useful if you have a process that generates data and you do not want to buffer it locally before uploading it, or if you want to send the result from a computational pipeline directly into Cloud Storage.

References: <https://cloud.google.com/storage/docs/streaming>

<https://cloud.google.com/bigquery/docs/loading-data>

NEW QUESTION # 212

You need to develop procedures to test a disaster plan for a mission-critical application. You want to use Google-recommended

practices and native capabilities within GCP.

What should you do?

- A. Use automated scripts to automate service provisioning. Use Activity Logs monitor and debug your tests.
- B. Use Deployment Manager to automate provisioning. Use Stackdriver to monitor and debug your tests.
- C. Use gcloud scripts to automate service provisioning. Use Activity Logs monitor and debug your tests.
- D. Use Deployment Manager to automate service provisioning. Use Activity Logs to monitor and debug your tests.

Answer: D

NEW QUESTION # 213

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. Provide training to the team about 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. Provision a staff position for service cost management.

Answer: C

NEW QUESTION # 214

A development team at your company has created a dockerized HTTPS web application. You need to deploy the application on Google Kubernetes Engine (GKE) and make sure that the application scales automatically.

How should you deploy to GKE?

- A. Enable autoscaling on the Compute Engine instance group. Use an Ingress resource to load balance the HTTPS traffic.
- B. Use the Horizontal Pod Autoscaler and enable cluster autoscaling on the Kubernetes cluster. Use a Service resource of type LoadBalancer to load-balance the HTTPS traffic.
- C. Use the Horizontal Pod Autoscaler and enable cluster autoscaling. Use an Ingress resource to loadbalance the HTTPS traffic.
- D. Enable autoscaling on the Compute Engine instance group. Use a Service resource of type LoadBalancer to load-balance the HTTPS traffic.

Answer: B

Explanation:

Reference:

<https://cloud.google.com/kubernetes-engine/docs/tutorials/http-balancer>

<https://cloud.google.com/kubernetes-engine/docs/concepts/network-overview#ext-lb>

NEW QUESTION # 215

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