

New Google Professional-Cloud-Architect Exam Answers - Professional-Cloud-Architect Valid Test Fee



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To be eligible for the Google Professional-Cloud-Architect certification exam, candidates must have at least three years of industry experience, including one year of designing and managing solutions using GCP. They should also have a strong understanding of GCP services, infrastructure, and security. Professional-Cloud-Architect exam tests the candidates' knowledge and skills in various areas, including designing and planning a GCP solution, managing and provisioning GCP resources, and optimizing GCP performance and cost.

Google Professional-Cloud-Architect certification exam is designed for professionals who want to demonstrate their expertise in designing and managing solutions on the Google Cloud Platform. Professional-Cloud-Architect Exam is intended for architects, solution designers, and other professionals who have experience in cloud computing, and it covers a range of topics related to designing and managing cloud solutions. Professional-Cloud-Architect exam is designed to validate the skills and knowledge required to design, develop, and manage solutions on the Google Cloud Platform.

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Google Certified Professional - Cloud Architect (GCP) Sample Questions (Q15-Q20):

NEW QUESTION # 15

Your organization has a 3-tier web application deployed in the same network on Google Cloud Platform. Each tier (web, API, and database) scales independently of the others. Network traffic should flow through the web to the API tier and then on to the database tier. Traffic should not flow between the web and the database tier. How should you configure the network?

- A. Set up software based firewalls on individual VMs.
- B. Add each tier to a different subnetwork.
- **C. Add tags to each tier and set up firewall rules to allow the desired traffic flow.**
- D. Add tags to each tier and set up routes to allow the desired traffic flow.

Answer: C

Explanation:

<https://aws.amazon.com/blogs/aws/building-three-tier-architectures-with-security-groups/> Google Cloud Platform(GCP) enforces firewall rules through rules and tags. GCP rules and tags can be defined once and used across all regions.

Reference:

<https://aws.amazon.com/it/blogs/aws/building-three-tier-architectures-with-security-groups/>

NEW QUESTION # 16

Your company just finished a rapid lift and shift to Google Compute Engine for your compute needs. You have another 9 months to design and deploy a more cloud-native solution. Specifically, you want a system that is no-ops and auto-scaling. Which two compute products should you choose? Choose 2 answers

- A. Compute Engine with custom instance types
- B. Compute Engine with containers
- C. Compute Engine with managed instance groups
- **D. Google Kubernetes Engine with containers**
- **E. Google App Engine Standard Environment**

Answer: D,E

Explanation:

B: With Container Engine, Google will automatically deploy your cluster for you, update, patch, secure the nodes.

Kubernetes Engine's cluster autoscaler automatically resizes clusters based on the demands of the workloads you want to run.

C: Solutions like Datastore, BigQuery, AppEngine, etc are truly NoOps.

App Engine by default scales the number of instances running up and down to match the load, thus providing consistent performance for your app at all times while minimizing idle instances and thus reducing cost.

Note: At a high level, NoOps means that there is no infrastructure to build out and manage during usage of the platform. Typically, the compromise you make with NoOps is that you lose control of the underlying infrastructure.

NEW QUESTION # 17

Your marketing department wants to send out a promotional email campaign. The development team wants to minimize direct operation management. They project a wide range of possible customer responses, from 100 to 500,000 click-throughs per day. The link leads to a simple website that explains the promotion and collects user information and preferences. Which infrastructure should you recommend? (CHOOSE TWO)

- A. Use a single compute Engine virtual machine (VM) to host a web server, backed by Google Cloud SQL.
- **B. Use a managed instance group to serve the website and Google Cloud Bigtable to store user data.**
- **C. Use Google App Engine to serve the website and Google Cloud Datastore to store user data.**
- D. Use a Google Container Engine cluster to serve the website and store data to persistent disk.

Answer: B,C

Explanation:
Reference:

□

NEW QUESTION # 18

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.

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 CSV to binary format, migrate from FTP to SFTP transport, and develop machine learning analysis of metrics.
- B. Migrate from FTP to streaming transport, migrate from CSV to binary format, and develop machine learning analysis of metrics.

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

Answer: B

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 # 19

Your company places a high value on being responsive and meeting customer needs quickly. Their primary business objectives are release speed and agility. You want to reduce the chance of security errors being accidentally introduced. Which two actions can you take? Choose 2 answers

- A. Use source code security analyzers as part of the CI/CD pipeline.
- B. Run a vulnerability security scanner as part of your continuous-integration/continuous-delivery (CI/CD) pipeline.
- C. Enable code signing and a trusted binary repository integrated with your CI/CD pipeline.
- D. Ensure you have stubs to unit test all interfaces between components.
- E. Ensure every code check-in is peer reviewed by a security SME.

Answer: A,B

NEW QUESTION # 20

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For the Google Certified Professional - Cloud Architect (GCP) (Professional-Cloud-Architect) web-based practice exam no special software installation is required. Because it is a browser-based Google Certified Professional - Cloud Architect (GCP) (Professional-Cloud-Architect) practice test. The web-based Google Certified Professional - Cloud Architect (GCP) (Professional-Cloud-Architect) practice exam works on all operating systems like Mac, Linux, iOS, Android, and Windows.

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