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Free PDF 2025 Fantastic Google Professional-Cloud-Architect: Google Certified Professional - Cloud Architect (GCP) Reliable Exam Question

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To become a Google Certified Professional - Cloud Architect, candidates must pass the certification exam that consists of multiple-choice and multiple-select questions. Professional-Cloud-Architect Exam is proctored and can be taken online or at an authorized testing center. Professional-Cloud-Architect exam fee is \$200, and candidates have two hours to complete the exam.

Google Professional-Cloud-Architect (Google Certified Professional - Cloud Architect (GCP)) Certification Exam is a globally recognized professional certification that validates an individual's ability to design, develop, and manage robust, scalable, and secure cloud architecture solutions using Google Cloud Platform (GCP). Google Certified Professional - Cloud Architect (GCP) certification is ideal for cloud architects, cloud engineers, solutions architects, and IT professionals who are responsible for designing and managing cloud infrastructure and applications.

Prerequisites

The recommended industry experience for the potential candidates is at least three years and an additional one year of experience in designing and managing solutions with the use of GCP. You must also understand the content of the corresponding exam before sitting for it. It is also recommended that you have expertise in software development methodologies as well as different approaches such as multi-tiered distributed applications for hybrid and multi-Cloud environments.

Google Certified Professional - Cloud Architect (GCP) Sample Questions (Q140-Q145):

NEW QUESTION # 140

You need to ensure reliability for your application and operations by supporting reliable task scheduling for compute on GCP. Leveraging Google best practices, what should you do?

- A. Using the Cron service provided by Google Kubernetes Engine (GKE), publish messages directly to a message-processing utility service running on Compute Engine instances.
- B. Using the Cron service provided by GKE, publish messages to a Cloud Pub/Sub topic. Subscribe to that topic using a message-processing utility service running on Compute Engine instances.
- C. Using the Cron service provided by App Engine, publishing messages directly to a message-processing utility service running on Compute Engine instances.
- **D. Using the Cron service provided by App Engine, publish messages to a Cloud Pub/Sub topic. Subscribe to that topic using a message-processing utility service running on Compute Engine instances.**

Answer: D

Explanation:

Reference:

<https://cloud.google.com/solutions/reliable-task-scheduling-compute-engine>

NEW QUESTION # 141

You are creating a solution to remove backup files older than 90 days from your backup Cloud Storage bucket. You want to optimize ongoing Cloud Storage spend. What should you do?

- A. Schedule a cron script using `gsutil ls -lr gs://backups/**` to find and remove items older than 90 days.
- B. Schedule a cron script using `gsutil ls -l gs://backups/**` to find and remove items older than 90 days and schedule it with cron.
- **C. Write a lifecycle management rule in XML and push it to the bucket with `gsutil`.**
- D. Write a lifecycle management rule in JSON and push it to the bucket with `gsutil`.

Answer: C

NEW QUESTION # 142

For this question, refer to the Mountkirk Games case study.

Mountkirk Games wants to set up a continuous delivery pipeline. Their architecture includes many small services that they want to be able to update and roll back quickly.

Mountkirk Games has the following requirements:

- * Services are deployed redundantly across multiple regions in the US and Europe.
- * Only frontend services are exposed on the public internet.
- * They can provide a single frontend IP for their fleet of services.
- * Deployment artifacts are immutable.

Which set of products should they use?

- A. Google Container Registry, Google Container Engine, Google HTTP(s) Load Balancer
- B. Google Cloud Storage, Google Cloud Dataflow, Google Compute Engine
- C. Google Cloud Functions, Google Cloud Pub/Sub, Google Cloud Deployment Manager
- D. Google Cloud Storage, Google App Engine, Google Network Load Balancer

Answer: A

Explanation:

Topic 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.

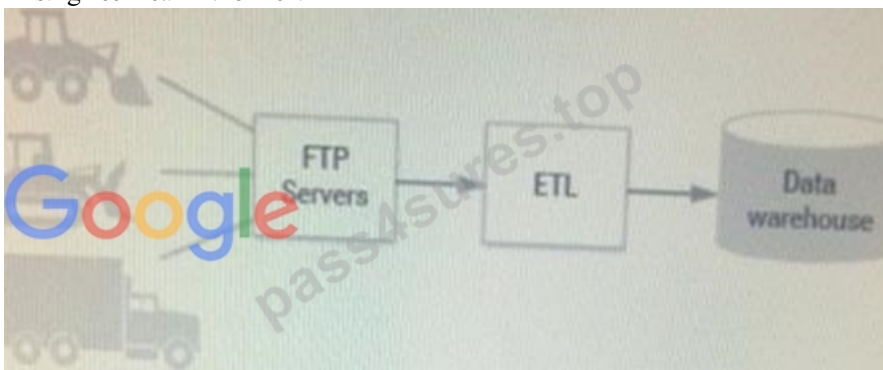
TerramEarth is proud of their ability to innovate on their core products and find new markets as their customers' needs change. For the past 20 years trends in the industry have been largely toward increasing productivity by using larger vehicles with a human operator.

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 TerraEarth 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.

NEW QUESTION # 143

Mountkirk Games wants to set up a continuous delivery pipeline. Their architecture includes many small services that they want to be able to update and roll back quickly. Mountkirk Games has the following requirements:

- * Services are deployed redundantly across multiple regions in the US and Europe
- * Only frontend services are exposed on the public internet
- * They can provide a single frontend IP for their fleet of services
- * Deployment artifacts are immutable

Which set of products should they use?

- A. Google Cloud Storage, Google Cloud Dataflow, Google Compute Engine
- **B. Google Cloud Storage, Google App Engine, Google Network Load Balancer**
- C. Google Cloud Functions, Google Cloud Pub/Sub, Google Cloud Deployment Manager
- D. Google Kubernetes Registry, Google Container Engine, Google HTTP(S) Load Balancer

Answer: B

NEW QUESTION # 144

A development manager is building a new application. He asks you to review his requirements and identify what cloud technologies he can use to meet them. The application must:

Be based on open-source technology for cloud portability

Dynamically scale compute capacity based on demand

Support continuous software delivery

Run multiple segregated copies of the same application stack

Deploy application bundles using dynamic templates

Route network traffic to specific services based on URL

Which combination of technologies will meet all of his requirements?

- A. Google Container Engine and Cloud Load Balancing
- B. Google Compute Engine and Cloud Deployment Manager
- **C. Google Compute Engine, Jenkins, and Cloud Load Balancing**
- D. Google Container Engine, Jenkins, and Helm

Answer: C

Explanation:

Explanation/Reference:

Explanation:

Jenkins is an open-source automation server that lets you flexibly orchestrate your build, test, and deployment pipelines. Kubernetes Engine is a hosted version of Kubernetes, a powerful cluster manager and orchestration system for containers.

When you need to set up a continuous delivery (CD) pipeline, deploying Jenkins on Kubernetes Engine provides important benefits over a standard VM-based deployment
Incorrect Answers:

A: Helm is a tool for managing Kubernetes charts. Charts are packages of pre-configured Kubernetes resources.

Use Helm to:

Find and use popular software packaged as Kubernetes charts




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D

- [illegible]

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