

Google's Exam Questions for Professional-Cloud-Architect Help You Achieve Success in Your First Attempt



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Google Professional-Cloud-Architect exam is a certification for professionals who want to demonstrate their expertise in designing, developing, and managing solutions on the Google Cloud Platform. It is designed for individuals who have experience in cloud architecture and are looking to expand their skill set. Professional-Cloud-Architect Exam Tests candidates on their ability to design and manage solutions on GCP, as well as their understanding of cloud architecture principles.

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Questions to get the prestigious Google Professional-Cloud-Architect certificate.

Google Certified Professional - Cloud Architect (GCP) Sample Questions (Q325-Q330):

NEW QUESTION # 325

As part of their new application experience, Dress4Win allows customers to upload images of themselves. The customer has exclusive control over who may view these images.

Customers should be able to upload images with minimal latency and also be shown their images quickly on the main application page when they log in.

Which configuration should Dress4Win use?

- A. Store image files in a Google Cloud Storage bucket. Add custom metadata to the uploaded images in Cloud Storage that contains the customer's unique ID.
- B. Use a distributed file system to store customers' images. As storage needs increase, add more persistent disks and/or nodes. Use a Google Cloud SQL database to maintain metadata that maps each customer's ID to their image files.
- C. Store image files in a Google Cloud Storage bucket. Use Google Cloud Datastore to maintain metadata that maps each customer's ID and their image files.
- D. Use a distributed file system to store customers' images. As storage needs increase, add more persistent disks and/or nodes. Assign each customer a unique ID, which sets each file's owner attribute, ensuring privacy of images.

Answer: C

NEW QUESTION # 326

Case Study: 4 - Dress4Win

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 freemium 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.

You want to ensure Dress4Win's sales and tax records remain available for infrequent viewing by auditors for at least 10 years.

Cost optimization is your top priority.

Which cloud services should you choose?

- A. Google Bigtable with US or EU as location to store the data, and gcloud to access the data.
- B. BigQuery to store the data, and a web server cluster in a managed instance group to access the data.
Google Cloud SQL mirrored across two distinct regions to store the data, and a Redis cluster in a managed instance group to access the data.
- C. Google Cloud Storage Nearline to store the data, and gsutil to access the data.
- **D. Google Cloud Storage Coldline to store the data, and gsutil to access the data.**

Answer: D

Explanation:

<https://cloud.google.com/storage/docs/storage-classes>

NEW QUESTION # 327

You want to automate the creation of a managed instance group. The VMs have many OS package dependencies. You want to minimize the startup time for new VMs in the instance group.

What should you do?

- A. Use Terraform to create the managed instance group and a startup script to install the OS package dependencies.
- B. Use Puppet to create the managed instance group and install the OS package dependencies.
- C. Use Deployment Manager to create the managed instance group and Ansible to install the OS package dependencies.
- **D. Create a custom VM image with all OS package dependencies. Use Deployment Manager to create the managed instance group with the VM image.**

Answer: D

NEW QUESTION # 328

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

Answer: A

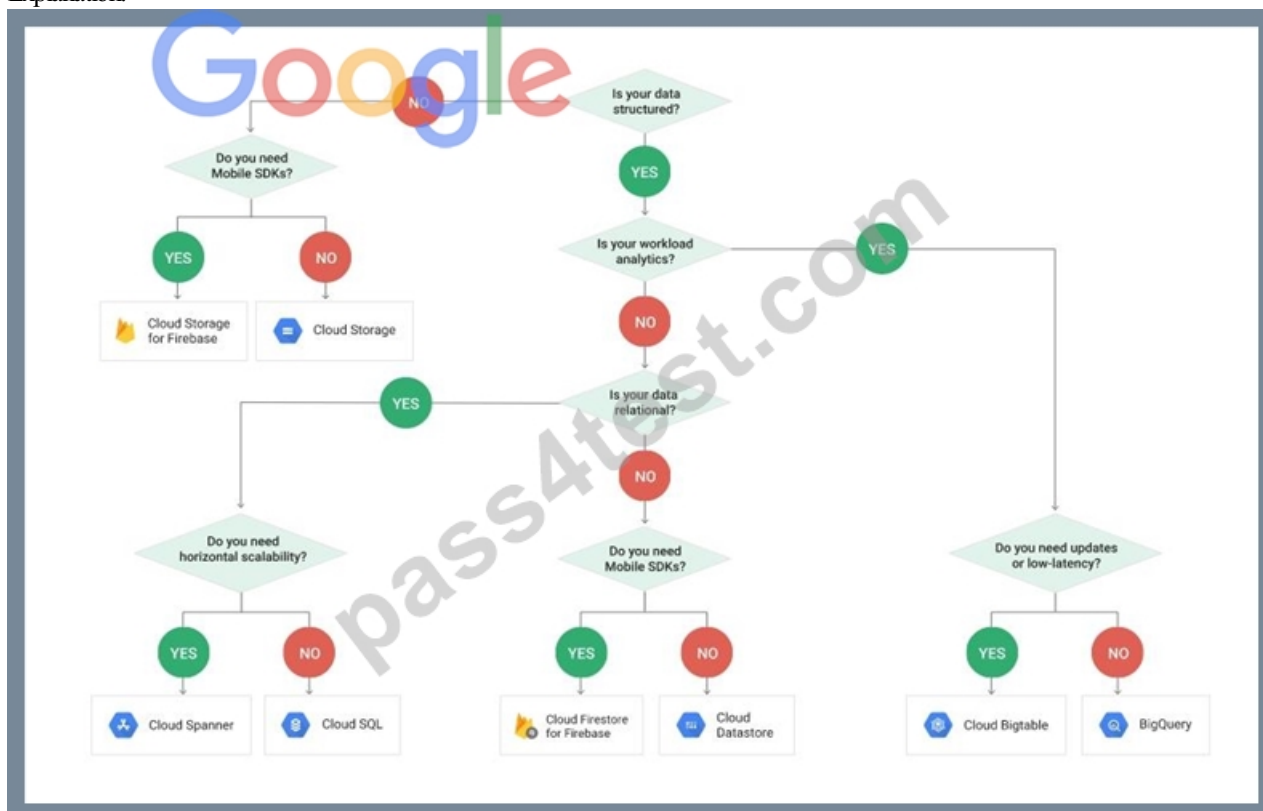
NEW QUESTION # 329

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-through 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 2 answers.

- A. Use a Google Container Engine cluster to serve the website and store data to persistent disk.
- 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 single compute Engine virtual machine (VM) to host a web server, backed by Google Cloud SQL.

Answer: B,C

Explanation:



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

NEW QUESTION # 330

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