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Google Certified Professional - Cloud Architect (GCP) Sample Questions (Q56-Q61):

NEW QUESTION # 56

Case Study: 3 - JencoMart Case Study

Company Overview

JencoMart is a global retailer with over 10,000 stores in 16 countries. The stores carry a range of goods, such as groceries, tires, and jewelry. One of the company's core values is excellent customer service. In addition, they recently introduced an environmental policy to reduce their carbon output by 50% over the next 5 years.

Company Background

JencoMart started as a general store in 1931, and has grown into one of the world's leading brands known for great value and customer service. Over time, the company transitioned from only physical stores to a stores and online hybrid model, with 25% of sales online. Currently, JencoMart has little presence in Asia, but considers that market key for future growth.

Solution Concept

JencoMart wants to migrate several critical applications to the cloud but has not completed a technical review to determine their suitability for the cloud and the engineering required for migration. They currently host all of these applications on infrastructure that is at its end of life and is no longer supported.

Existing Technical Environment

JencoMart hosts all of its applications in 4 data centers: 3 in North American and 1 in Europe, most applications are dual-homed. JencoMart understands the dependencies and resource usage metrics of their on-premises architecture.

Application Customer loyalty portal

LAMP (Linux, Apache, MySQL and PHP) application served from the two JencoMart-owned U.S. data centers.

Database

- * Oracle Database stores user profiles

- * PostgreSQL database stores user credentials

- homed in US West

- service level agreement (SLA)

- Authenticates all users

Compute

- * 30 machines in US West Coast, each machine has:

- * 20 machines in US East Coast, each machine has:

- core CPU

Storage

- * Access to shared 100 TB SAN in each location

- * Tape backup every week

Business Requirements

- * Optimize for capacity during peak periods and value during off-peak periods

- * Guarantee service availability and support

- * Reduce on-premises footprint and associated financial and environmental impact.

- * Move to outsourcing model to avoid large upfront costs associated with infrastructure purchase

- * Expand services into Asia.

Technical Requirements

- * Assess key application for cloud suitability.

- * Modify application for the cloud.

- * Move applications to a new infrastructure.

- * Leverage managed services wherever feasible

- * Sunset 20% of capacity in existing data centers

- * Decrease latency in Asia

CEO Statement

JencoMart will continue to develop personal relationships with our customers as more people access the web. The future of our retail business is in the global market and the connection between online and in-store experiences. As a large global company, we also have a responsibility to the environment through 'green' initiatives and policies.

CTO Statement

The challenges of operating data centers prevents focus on key technologies critical to our long-term success. Migrating our data services to a public cloud infrastructure will allow us to focus on big data and machine learning to improve our service customers.

CFO Statement

Since its founding JencoMart has invested heavily in our data services infrastructure. However, because of changing market trends, we need to outsource our infrastructure to ensure our long-term success. This model will allow us to respond to increasing customer demand during peak and reduce costs.

For this question, refer to the JencoMart case study.

JencoMart has decided to migrate user profile storage to Google Cloud Datastore and the application servers to Google Compute Engine (GCE). During the migration, the existing infrastructure will need access to Datastore to upload the data. What service account key-management strategy should you recommend?

- A. Deploy a custom authentication service on GCE/Google Container Engine (GKE) for the on-premises infrastructure and use GCP managed keys for the VMs.
- B. Authenticate the on-premises infrastructure with a user account and provision service account keys for the VMs.
- **C. Provision service account keys for the on-premises infrastructure and for the GCE virtual machines (VMs).**
- D. Provision service account keys for the on-premises infrastructure and use Google Cloud Platform (GCP) managed keys for the VMs

Answer: C

Explanation:

A) (correct answer) This addresses both of data migration and application server migration properly.

"Provision service account keys for the on-premises infrastructure": For code running on systems outside Google, you cannot use GCP-managed keys. You need to create Service account for it and provision User-managed keys. These keys are created, downloadable, and managed by users - This is solution for on-premises access to GCP datastore during migration

"use Google Cloud Platform (GCP) managed keys for the VMs" - this is solution for Application server migration since there is no external access to GCP is required during the migration.

Answer B is incorrect: First, the applications running on-premises to access GCP Datastore assume the identity of the service account to call Google APIs, so that the users aren't directly involved.

Secondly, for the application server migration to GCP VMs, you can use GCP managed keys for the VMs. It's simple and effective. There is no need to provision and manage keys (User-managed keys) by yourself for the VMs.

GCP-managed keys are used by Cloud Platform services such as App Engine and Compute Engine. These keys cannot be downloaded. Google will keep the keys and automatically rotate them on an approximately weekly basis.

C) is incorrect in the solution for on-premises access to GCP Datastore - This is possible options that might require more setup than worthwhile for the requirements.

D) is incorrect for reason of application server migration: you can use GCP managed keys for the VMs. It's simple and effective. There is no need to provision and manage keys (User-managed keys) by yourself for the application VMs

NEW QUESTION # 57

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

Answer: B

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 # 58

Your customer is receiving reports that their recently updated Google App Engine application is taking approximately 30 seconds to load for some of their users. This behavior was not reported before the update. What strategy should you take?

- A. Work with your ISP to diagnose the problem.
- B. Roll back to an earlier known good release initially, then use Stackdriver Trace and logging to diagnose the problem in a development/test/staging environment.
- C. Open a support ticket to ask for network capture and flow data to diagnose the problem, then roll back your application.
- **D. Roll back to an earlier known good release, then push the release again at a quieter period to investigate. Then use Stackdriver Trace and logging to diagnose the problem.**

Answer: D

NEW QUESTION # 59

Your company runs several databases on a single MySQL instance. They need to take backups of a specific database at regular intervals. The backup activity needs to complete as quickly as possible and cannot be allowed to impact disk performance. How should you configure the storage?

- **A. Mount a Local SSD volume as the backup location. After the backup is complete, use gsutil to move the backup to Google Cloud Storage.**
- B. Mount additional persistent disk volumes onto each virtual machine (VM) instance in a RAID10 array and use LVM to create snapshots to send to Cloud Storage.
- C. Use gcsfuse to mount a Google Cloud Storage bucket as a volume directly on the instance and write backups to the mounted location using mysqldump
- D. Configure a cron job to use the gcloud tool to take regular backups using persistent disk snapshots.

Answer: A

Explanation:

<https://cloud.google.com/compute/docs/instances/sql-server/best-practices>

NEW QUESTION # 60

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For this question, refer to the JencoMart case study.

JencoMart wants to move their User Profiles database to Google Cloud Platform. Which Google Database should they use?

- A. Cloud Spanner
- B. Google BigQuery
- C. Google Cloud Datastore
- D. Google Cloud SQL

Answer: C

Explanation:

Common workloads for Google Cloud Datastore:

User profiles

- * Product catalogs

- * Game state

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

<https://cloud.google.com/datastore/docs/concepts/overview>

NEW QUESTION # 61

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