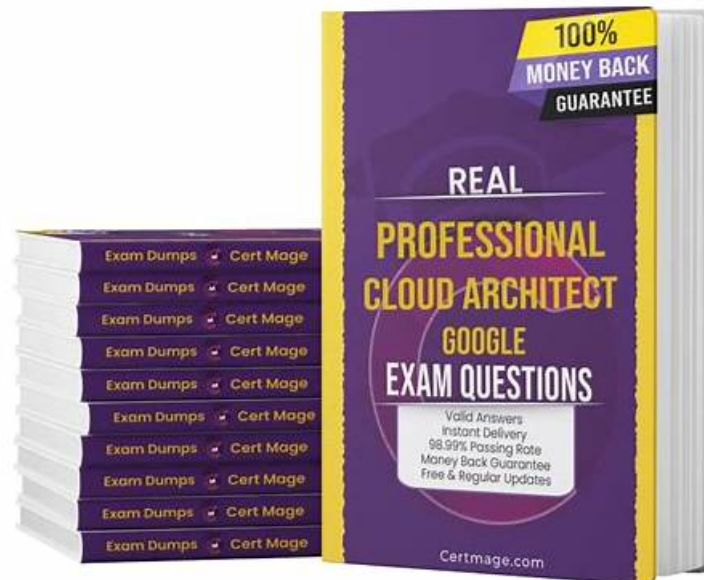


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Google Certified Professional - Cloud Architect (GCP) Sample Questions (Q159-Q164):

NEW QUESTION # 159

Your company is running its application workloads on Compute Engine. The applications have been deployed in production, acceptance, and development environments. The production environment is business-critical and is used 24/7, while the acceptance and development environments are only critical during office hours. Your CFO has asked you to optimize these environments to achieve cost savings during idle times. What should you do?

- A. Use regular Compute Engine instances for the production environment, and use preemptible VMs for the acceptance and development environments.
- **B. Use Cloud Scheduler to trigger a Cloud Function that will stop the development and acceptance environments after office hours and start them just before office hours.**
- C. Create a shell script that uses the `gcloud` command to change the machine type of the development and acceptance instances to a smaller machine type outside of office hours. Schedule the shell script on one of the production instances to automate the task.
- D. Deploy the development and acceptance applications on a managed instance group and enable autoscaling.

Answer: B

Explanation:

<https://cloud.google.com/blog/products/it-ops/best-practices-for-optimizing-your-cloud-costs> Schedule VMs to auto start and stop: The benefit of a platform like Compute Engine is that you only pay for the compute resources that you use. Production systems tend to run 24/7; however, VMs in development, test or personal environments tend to only be used during business hours, and turning them off can save you a lot of money!

<https://cloud.google.com/blog/products/storage-data-transfer/save-money-by-stopping-and-starting-compute-engine-instances-on-schedule> Cloud Scheduler, GCP's fully managed cron job scheduler, provides a straightforward solution for automatically stopping and starting VMs. By employing Cloud Scheduler with Cloud Pub/Sub to trigger Cloud Functions on schedule, you can stop and start groups of VMs identified with labels of your choice (created in Compute Engine). Here you can see an example schedule that stops all VMs labeled "dev" at 5pm and restarts them at 9am, while leaving VMs labeled "prod" untouched.

NEW QUESTION # 160

For this question, refer to the TerramEarth case study.

TerramEarth's CTO wants to use the raw data from connected vehicles to help identify approximately when a vehicle in the field will have a catastrophic failure. You want to allow analysts to centrally query the vehicle data. Which architecture should you recommend?

- A. Option C
- B. Option A
- **C. Option B**
- D. Option D

Answer: C

NEW QUESTION # 161

You need to develop procedures to verify resilience of disaster recovery for remote recovery using GCP. Your production environment is hosted on-premises. You need to establish a secure, redundant connection between your on-premises network and the GCP network.

What should you do?

- A. Verify that the Transfer Appliance can replicate files to GCP. Verify that Cloud VPN can establish a secure connection between your networks if the Transfer Appliance fails.
- B. Verify that Dedicated Interconnect can replicate files to GCP. Verify that direct peering can establish a secure connection between your networks if Dedicated Interconnect fails.
- **C. Verify that the Transfer Appliance can replicate files to GCP. Verify that direct peering can establish a secure connection between your networks if the Transfer Appliance fails.**

- D. Verify that Dedicated Interconnect can replicate files to GCP. Verify that Cloud VPN can establish a secure connection between your networks if Dedicated Interconnect fails.

Answer: C

NEW QUESTION # 162

For this question refer to the TerramEarth case study.

Which of TerramEarth's legacy enterprise processes will experience significant change as a result of increased Google Cloud Platform adoption.

- A. Capacity planning, utilization measurement, data center expansion
- B. Opex/capex allocation, LAN changes, capacity planning
- C. Data Center expansion, TCO calculations, utilization measurement
- **D. Capacity planning, TCO calculations, opex/capex allocation**

Answer: D

Explanation:

Capacity planning, TCO calculations, opex/capex allocation From the case study, it can conclude that Management (CXO) all concern rapid provision of resources (infrastructure) for growing as well as cost management, such as Cost optimization in Infrastructure, trade up front capital expenditures (Capex) for ongoing operating expenditures (Opex), and Total cost of ownership (TCO)

Topic 4, JencoMart

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

20 TB

Complex table structure

Well maintained, clean data

Strong backup strategy

* PostgreSQL database stores user credentials

Single-homed in US West

o No redundancy

o Backed up every 12 hours

100% uptime service level agreement (SLA)

Authenticates all users

Compute

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

o Twin, dual core CPUs

o 32GB of RAM

Twin 250 GB HDD (RAID 1)

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

o Single dual-core CPU

o 24 GB of RAM

Twin 250 GB HDD (RAID 1)

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.

NEW QUESTION # 163

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

Answer: A

Explanation:

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

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 # 164

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