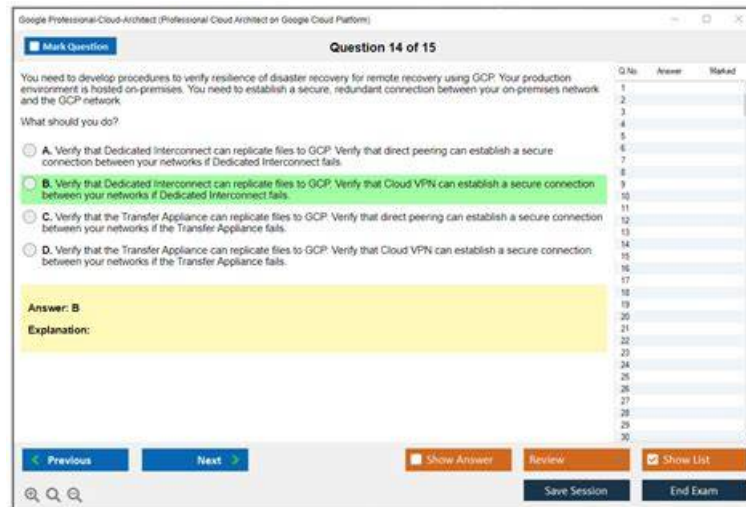


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Google Professional-Cloud-Architect Exam Overview:

Certification Vendor:	Google
Exam Name:	Google Certified Professional - Cloud Architect
Exam Number:	Professional-Cloud-Architect
Available Languages:	English, Japanese, Spanish, Portuguese, French, German, Indonesian
Exam Format:	Multiple Choice, Multiple Select
Exam Duration:	120 minutes
Passing Score:	Not publicly disclosed
Related Certifications:	Google Cloud Certified - Professional Cloud Architect
Real Exam Qty:	50-60
Exam Price:	\$200 USD
Certificate Validity Period:	2 years
Sample Questions:	Google Professional-Cloud-Architect Sample Questions
Exam Way:	Online (proctored) or at a test center
Pre Condition:	No mandatory prerequisite, but recommended to have 3+ years of industry experience including 1+ years designing and managing solutions using Google Cloud
Official Syllabus URL:	https://cloud.google.com/learn/certification/cloud-architect

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Google Professional-Cloud-Architect Exam is designed to test the candidate's knowledge of Google Cloud Platform services, architecture, and design principles. Professional-Cloud-Architect exam consists of 50 multiple-choice questions that must be answered in 2 hours. Professional-Cloud-Architect exam is available in English, Japanese, Spanish, and Portuguese languages.

To become a Google Certified Professional - Cloud Architect, candidates must pass a rigorous exam that tests their understanding of various cloud architecture concepts, such as designing and planning a cloud solution architecture, managing and provisioning a cloud infrastructure, optimizing and securing a cloud solution, and analyzing and optimizing technical and business processes of a cloud solution.

Google Certified Professional - Cloud Architect (GCP) Sample Questions (Q20-Q25):

NEW QUESTION # 20

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

- ☐ 20 TB
- ☐ Complex table structure
- ☐ Well maintained, clean data
- ☐ Strong backup strategy

* PostgreSQL database stores user credentials

- ☐ Single-homed in US West
- ☐ ☐ ☐ ☐ ☐ No redundancy
- ☐ ☐ ☐ ☐ Backed up every 12 hours
- ☐ 100% uptime service level agreement (SLA)
- ☐ Authenticates all users

Compute

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

- ☐ ☐ ☐ ☐ ☐ Twin, dual core CPUs
- ☐ ☐ ☐ ☐ ☐ 32GB of RAM
- ☐ Twin 250 GB HDD (RAID 1)

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

- ☐ ☐ ☐ ☐ ☐ Single dual-core CPU
- ☐ ☐ ☐ ☐ ☐ 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

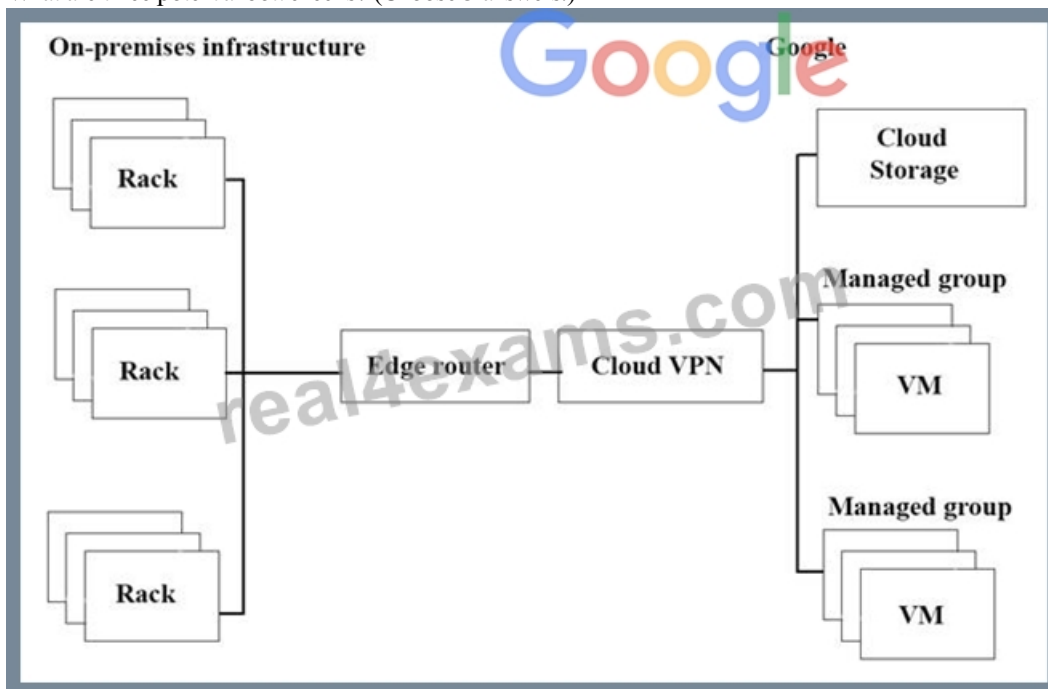
Since its founding JencoMart has invested heavily in our data services infrastructure. However, because of changing market trends, we need to outsource our infrastructure to ensure our long- term success. This model will allow us to respond to increasing customer demand during peak and reduce costs.

For this question, refer to the JencoMart case study.

The migration of JencoMart's application to Google Cloud Platform (GCP) is progressing too slowly. The infrastructure is shown in the diagram.

You want to maximize throughput.

What are three potential bottlenecks? (Choose 3 answers.)



- A. A tier of Google Cloud Storage that is not suited for this task
- B. Complicated internet connectivity between the on-premises infrastructure and GCP
- C. A single VPN tunnel, which limits throughput
- D. A copy command that is not suited to operate over long distances
- E. A separate storage layer outside the VMs, which is not suited for this task
- F. Fewer virtual machines (VMs) in GCP than on-premises machines

Answer: B,C,D

Explanation:

A). Recommended practice is to have two redundant connections, usually Dedicated Interconnect and VPN. VPNs suit low volume

data connections so won't cut it for this company.

- C). Advisable to use GCP recommended tools that support multi-part, parallel composite and resumable uploads to Cloud Storage.
- F). With some existing VMs being dual-homed, firewalls, VPC and routing configs, things could get pretty complicated.

NEW QUESTION # 21

You are using Cloud SQL as the database backend for a large CRM deployment. You want to scale as usage increases and ensure that you don't run out of storage, maintain 75% CPU usage cores, and keep replication lag below 60 seconds. What are the correct steps to meet your requirements?

- A. 1. Create a Stackdriver alert when storage exceeds 75%, and increase the available storage on the instance to create more space.
2. Deploy memcache to reduce CPU load.
3. Create a Stackdriver alert for replication lag, and change the instance type to a 32-core machine type to reduce replication lag.
- B. 1. Enable automatic storage increase for the instance.
2. Create a Stackdriver alert when CPU usage exceeds 75%, and change the instance type to reduce CPU usage.
3. Create a Stackdriver alert for replication lag, and shard the database to reduce replication time.
- C. 1. Enable automatic storage increase for the instance.
2. Change the instance type to a 32-core machine type to keep CPU usage below 75%.
3. Create a Stackdriver alert for replication lag, and deploy memcache to reduce load on the master.
- D. 1. Create a Stackdriver alert when storage exceeds 75%, and increase the available storage on the instance to create more space.
2. Deploy memcache to reduce CPU load.
3. Change the instance type to a 32-core machine type to reduce replication lag.

Answer: B

NEW QUESTION # 22

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 Kubernetes Registry, Google Container Engine, Google HTTP(S) Load Balancer
- D. Google Cloud Functions, Google Cloud Pub/Sub, Google Cloud Deployment Manager

Answer: C

NEW QUESTION # 23

To reduce costs, the Director of Engineering has required all developers to move their development infrastructure resources from on-premises virtual machines (VMs) to Google Cloud Platform. These resources go through multiple start/stop events during the day and require state to persist. You have been asked to design the process of running a development environment in Google Cloud while providing cost visibility to the finance department. Which two steps should you take? Choose 2 answers

- A. Use Google BigQuery billing export and labels to associate cost to groups.
- B. Store all state into local SSD, snapshot the persistent disks, and terminate the VM.
- C. Store all state in Google Cloud Storage, snapshot the persistent disks, and terminate the VM.
- D. Apply VM CPU utilization label and include it in the BigQuery billing export.
- E. Use the -auto-delete flag on all persistent disks and terminate the VM.
- F. Use the --no-auto-delete flag on all persistent disks and stop the VM.

Answer: A,F

Explanation:

Reference:

<https://cloud.google.com/billing/docs/how-to/export-data-bigquery>

NEW QUESTION # 24

Your customer is moving an existing corporate application to Google Cloud Platform from an on-premises data center. The business owners require minimal user disruption. There are strict security team requirements for storing passwords. What authentication strategy should they use?

- A. Federate authentication via SAML 2.0 to the existing Identity Provider.
- B. Ask users to set their Google password to match their corporate password.
- C. Use G Suite Password Sync to replicate passwords into Google.
- D. Provision users in Google using the Google Cloud Directory Sync tool.

Answer: A

Explanation:

Reference:

<https://cloud.google.com/solutions/authenticating-corporate-users-in-a-hybrid-environment>

NEW QUESTION # 25

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