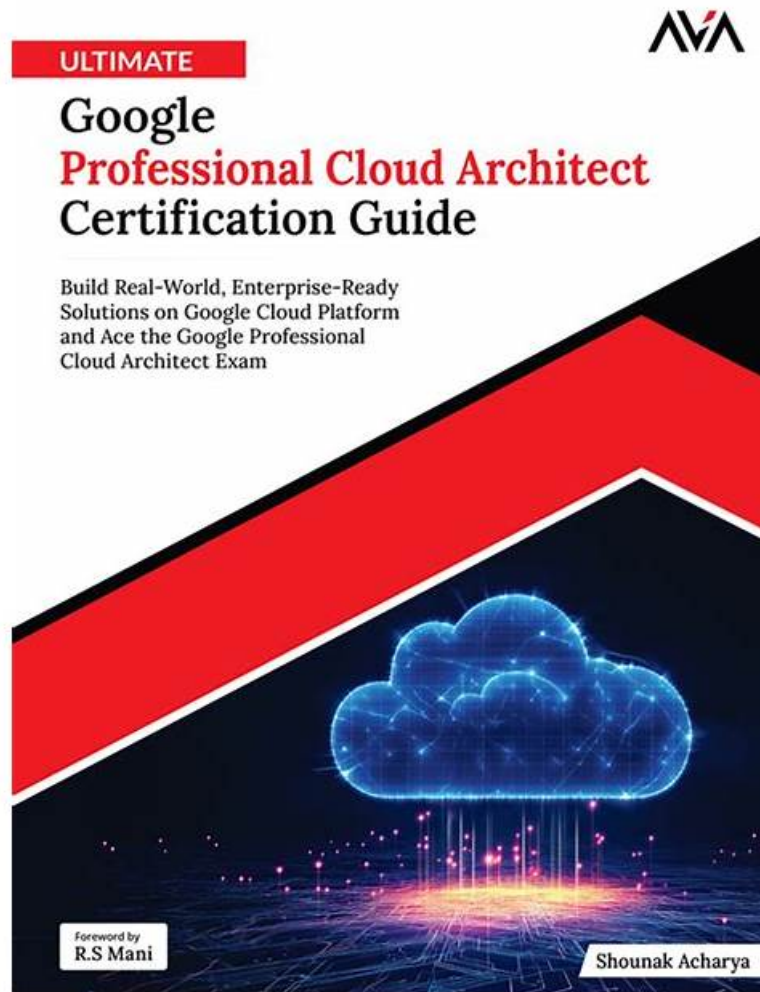


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The GCP certification exam covers a wide range of topics related to cloud architecture, including designing and planning a cloud solution architecture, managing and provisioning infrastructure, ensuring security and compliance, and optimizing technical and business processes. Professional-Cloud-Architect Exam is designed to assess the candidate's ability to design, develop, and manage scalable, efficient, and secure cloud solutions using GCP technologies.

>> Professional-Cloud-Architect New Questions <<

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To be eligible for the Professional-Cloud-Architect exam, candidates should have at least three years of experience in cloud architecture and a deep understanding of GCP services. They should also be familiar with cloud design patterns and best practices, as well as have experience with security and compliance requirements. Professional-Cloud-Architect Exam is designed to test candidates on real-world scenarios and is intended to validate their ability to design, develop, and manage solutions on GCP.

Google Certified Professional - Cloud Architect (GCP) Sample Questions (Q177-Q182):

NEW QUESTION # 177

Your company has decided to build a backup replica of their on-premises user authentication PostgreSQL database on Google Cloud Platform. The database is 4 TB, and large updates are frequent. Replication requires private address space communication. Which networking approach should you use?

- A. Google Cloud VPN connected to the data center network
- **B. Google Cloud Dedicated Interconnect**
- C. A NAT and TLS translation gateway installed on-premises
- D. A Google Compute Engine instance with a VPN server installed connected to the data center network

Answer: B

Explanation:

Explanation

<https://cloud.google.com/docs/enterprise/best-practices-for-enterprise-organizations> Google Cloud Dedicated Interconnect provides direct physical connections and RFC 1918 communication between your on-premises network and Google's network. Dedicated Interconnect enables you to transfer large amounts of data between networks, which can be more cost effective than purchasing additional bandwidth over the public Internet or using VPN tunnels.

Benefits:

* Traffic between your on-premises network and your VPC network doesn't traverse the public Internet.

Traffic traverses a dedicated connection with fewer hops, meaning there are less points of failure where traffic might get dropped or disrupted.

* Your VPC network's internal (RFC 1918) IP addresses are directly accessible from your on-premises

* network. You don't need to use a NAT device or VPN tunnel to reach internal IP addresses. Currently, you can only reach internal IP addresses over a dedicated connection. To reach Google external IP addresses, you must use a separate connection.

* You can scale your connection to Google based on your needs. Connection capacity is delivered over one or more 10 Gbps Ethernet connections, with a maximum of eight connections (80 Gbps total per interconnect).

* The cost of egress traffic from your VPC network to your on-premises network is reduced. A dedicated connection is generally the least expensive method if you have a high-volume of traffic to and from Google's network.

References: <https://cloud.google.com/interconnect/docs/details/dedicated>

NEW QUESTION # 178

Case Study: 4 - Dress4Win case study

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.

For this question, refer to the Dress4Win case study.

Dress4Win would like to become familiar with deploying applications to the cloud by successfully deploying some applications quickly, as is. They have asked for your recommendation. What should you advise?

- **A. Identify self-contained applications with external dependencies as a first move to the cloud.**
- B. Recommend moving their message queuing servers to the cloud and continue handling requests to on-premise applications.
- C. Identify enterprise applications with internal dependencies and recommend these as a first move to the cloud.
- D. Suggest moving their in-house databases to the cloud and continue serving requests to on- premise applications.

Answer: A

NEW QUESTION # 179

You set up an autoscaling instance group to serve web traffic for an upcoming launch. After configuring the instance group as a backend service to an HTTP(S) load balancer, you notice that virtual machine (VM) instances are being terminated and re-launched every minute. The instances do not have a public IP address. You have verified the appropriate web response is coming from each instance using the curl command. You want to ensure the backend is configured correctly. What should you do?

- A. Ensure that a firewall rule exists to allow source traffic on HTTP/HTTPS to reach the load balancer.
- **B. Create a tag on each instance with the name of the load balancer. Configure a firewall rule with the name of the load balancer as the source and the instance tag as the destination.**
- C. Assign a public IP to each instance and configure a firewall rule to allow the load balancer to reach the instance public IP.
- D. Ensure that a firewall rule exists to allow load balancer health checks to reach the instances in the instance group.

Answer: B

NEW QUESTION # 180

You set up an autoscaling instance group to serve web traffic for an upcoming launch. After configuring the instance group as a backend service to an HTTP(S) load balancer, you notice that virtual machine (VM) instances are being terminated and re-launched every minute. The instances do not have a public IP address. You have verified the appropriate web response is coming from each instance using the curl command. You want to ensure the backend is configured correctly. What should you do?

- A. Ensure that a firewall rule exists to allow source traffic on HTTP/HTTPS to reach the load balancer.
- B. Assign a public IP to each instance and configure a firewall rule to allow the load balancer to reach the instance public IP.
- C. Create a tag on each instance with the name of the load balancer. Configure a firewall rule with the name of the load balancer as the source and the instance tag as the destination.
- **D. Ensure that a firewall rule exists to allow load balancer health checks to reach the instances in the instance group.**

Answer: D

Explanation:

<https://cloud.google.com/vpc/docs/using-firewalls>

The best practice when configuration a health check is to check health and serve traffic on the same port. However, it is possible to perform health checks on one port, but serve traffic on another. If you do use two different ports, ensure that firewall rules and services running on instances are configured appropriately. If you run health checks and serve traffic on the same port, but decide to switch ports at some point, be sure to update both the backend service and the health check.

Backend services that do not have a valid global forwarding rule referencing it will not be health checked and will have no health status.

References:

<https://cloud.google.com/compute/docs/load-balancing/http/backend-service>

NEW QUESTION # 181

For this question, refer to the TerraEarth case study.

To speed up data retrieval, more vehicles will be upgraded to cellular connections and be able to transmit data to the ETL process. The current FTP process is error-prone and restarts the data transfer from the start of the file when connections fail, which happens often. You want to improve the reliability of the solution and minimize data transfer time on the cellular connections. What should you do?

- A. Directly transfer the files to different Google Cloud Multi-Regional Storage bucket locations in us, eu, and asia using Google APIs over HTTP(S). Run the ETL process using the data in the bucket.
- B. Use one Google Container Engine cluster of FTP servers. Save the data to a Multi-Regional bucket. Run the ETL process using data in the bucket.
- **C. Directly transfer the files to a different Google Cloud Regional Storage bucket location in us, eu, and asia using Google APIs over HTTP(S). Run the ETL process to retrieve the data from each Regional bucket.**
- D. Use multiple Google Container Engine clusters running FTP servers located in different regions. Save the data to Multi-Regional buckets in us, eu, and asia. Run the ETL process using the data in the bucket.

Answer: C

Explanation:

<https://cloud.google.com/storage/docs/locations>

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 # 182

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