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To take the exam, candidates must have a strong understanding of cloud computing concepts, including distributed systems, data storage, and networking. They must also be familiar with the various GCP services and tools, such as Compute Engine, Cloud Storage, and BigQuery. Professional-Cloud-Architect exam format consists of multiple-choice and scenario-based questions, and candidates have two hours and thirty minutes to complete the exam.

The GCP certification exam is targeted at architects, developers, and IT professionals who have experience with cloud computing and want to take their skills to the next level. Professional-Cloud-Architect Exam covers a broad range of topics, including cloud architecture, networking, security, data storage, and machine learning. It tests candidates on their ability to design and implement GCP solutions that meet specific business requirements and performance objectives.

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Google Professional-Cloud-Architect Certification is an excellent way for professionals to enhance their career prospects in the cloud computing industry. It demonstrates to potential employers that the individual has the skills and knowledge required to design, develop, and manage cloud-based solutions on the Google Cloud Platform. It also helps professionals stand out from their peers and demonstrates their commitment to learning and staying up-to-date with the latest cloud computing technologies.

Google Certified Professional - Cloud Architect (GCP) Sample Questions (Q268-Q273):

NEW QUESTION # 268

Case Study: 5 - 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. The 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 moving their development and test environments. They are also 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. All servers run Ubuntu LTS v16.04.

Databases:

MySQL. 1 server for user data, inventory, static data:

- MySQL 5.8
- 8 core CPUs
- 128 GB of RAM
- 2x 5 TB HDD (RAID 1)

Redis 3 server cluster for metadata, social graph, caching. Each server is:

- Redis 3.2
- 4 core CPUs
- 32GB of RAM

Compute:

40 Web Application servers providing micro-services based APIs and static content.

- Tomcat - Java
- Nginx
- 4 core CPUs
- 32 GB of RAM

20 Apache Hadoop/Spark servers:

- Data analysis
- Real-time trending calculations
- 8 core CPUs
- 128 GB of RAM
- 4x 5 TB HDD (RAID 1)

3 RabbitMQ servers for messaging, social notifications, and events:

- 8 core CPUs
- 32GB of RAM

Miscellaneous servers:

- Jenkins, monitoring, bastion hosts, security scanners
- 8 core CPUs
- 32GB of RAM

Storage appliances:

iSCSI for VM hosts

Fiber channel SAN - MySQL databases

- 1 PB total storage; 400 TB available

NAS - image storage, logs, backups

- 100 TB total storage; 35 TB available

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.

Technical Requirements

Easily create non-production environment in the cloud.

Implement an automation framework for provisioning resources in cloud.

Implement a continuous deployment process for deploying applications to the on-premises

datacenter or cloud.

Support failover of the production environment to cloud during an emergency.

Encrypt data on the wire and at rest.

Support multiple private connections between the production data center and cloud environment.

Executive Statement

Our investors are concerned about our ability to scale and contain costs with our current infrastructure. They are also concerned that a competitor could use a public cloud platform to offset their up-front investment and free them to focus on developing better features. Our traffic patterns are highest in the mornings and weekend evenings; during other times, 80% of our capacity is sitting idle.

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 for a public cloud strategy achieves a cost reduction between 30% and 50% over our current model.

For this question, refer to the Dress4Win case study. Considering the given business requirements, how would you automate the deployment of web and transactional data layers?

- A. Deploy Nginx and Tomcat using Cloud Launcher. Deploy a MySQL server using Cloud Launcher. Deploy Jenkins to Compute Engine using Cloud Deployment Manager scripts.
- B. Migrate Nginx and Tomcat to App Engine. Deploy a MySQL server using Cloud Launcher. Deploy Jenkins to Compute Engine using Cloud Launcher.
- C. Deploy Nginx and Tomcat using Cloud Deployment Manager to Compute Engine. Deploy a Cloud SQL server to replace MySQL. Deploy Jenkins using Cloud Deployment Manager.
- D. Migrate Nginx and Tomcat to App Engine. Deploy a Cloud Datastore server to replace the MySQL server in a high-availability configuration. Deploy Jenkins to Compute Engine using Cloud Launcher.

Answer: D

NEW QUESTION # 269

You have an outage in your Compute Engine managed instance group: all instance keep restarting after 5 seconds. You have a health check configured, but autoscaling is disabled. Your colleague, who is a Linux expert, offered to look into the issue. You need to make sure that he can access the VMs. What should you do?

- A. Disable autoscaling for the instance group. Add his SSH key to the project-wide SSH Keys
- B. Perform a rolling restart on the instance group
- C. Grant your colleague the IAM role of project Viewer
- D. Disable the health check for the instance group. Add his SSH key to the project-wide SSH keys

Answer: D

NEW QUESTION # 270

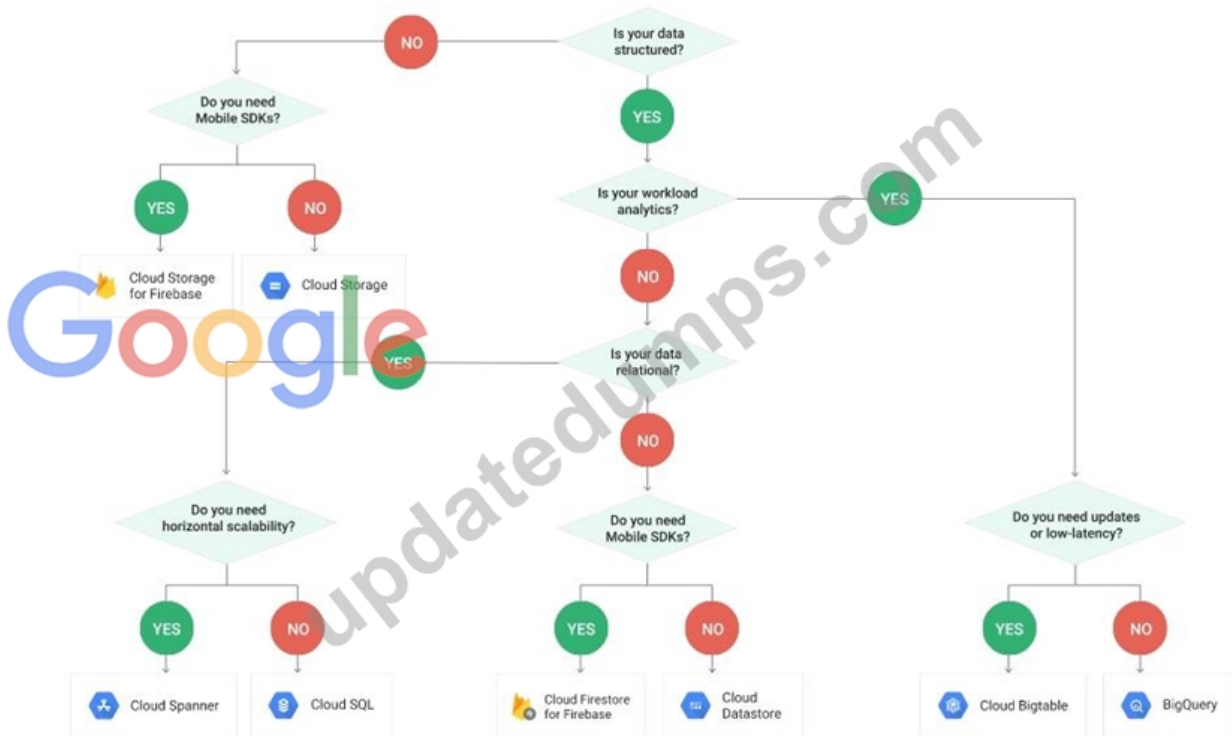
Your marketing department wants to send out a promotional email campaign. The development team wants to minimize direct operation management. They project a wide range of possible customer responses, from 100 to 500,000 click-throughs per day. The link leads to a simple website that explains the promotion and collects user information and preferences. Which infrastructure should you recommend? (CHOOSE TWO)

- A. Use Google App Engine to serve the website and Google Cloud Datastore to store user data.
- B. Use a single compute Engine virtual machine (VM) to host a web server, backed by Google Cloud SQL.
- C. Use a managed instance group to serve the website and Google Cloud Bigtable to store user data.
- D. Use a Google Container Engine cluster to serve the website and store data to persistent disk.

Answer: A,C

Explanation:

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



References:

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

NEW QUESTION # 271

For this question, refer to the Dress4Win case study. To be legally compliant during an audit, Dress4Win must be able to give insights in all administrative actions that modify the configuration or metadata of resources on Google Cloud.

What should you do?

- A. Enable Cloud Identity-Aware Proxy in all projects, and add the group of Administrators as a member.
- B. Use Stackdriver Monitoring to create a dashboard on the project's activity.
- C. Use the Activity page in the GCP Console and Stackdriver Logging to provide the required insight.
- D. Use Stackdriver Trace to create a trace list analysis.

Answer: A

NEW QUESTION # 272

For this question, refer to the TerramEarth case study

Your development team has created a structured API to retrieve vehicle data. They want to allow third parties to develop tools for dealerships that use this vehicle event data. You want to support delegated authorization against this data. What should you do?

- A. Build or leverage an OAuth-compatible access control system.
- B. Create secondary credentials for each dealer that can be given to the trusted third party.
- C. Restrict data access based on the source IP address of the partner systems.
- D. Build SAML 2.0 SSO compatibility into your authentication system.

Answer: A

Explanation:

<https://cloud.google.com/appengine/docs/flexible/go/authorizing-apps>

https://cloud.google.com/docs/enterprise/best-practices-for-enterprise-organizations#delegate_application_authorization_with_oauth2

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