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Prerequisites

There are no official requirements that the candidates for the Google Professional Cloud Architect certification need to satisfy. However, it is recommended that the applicants possess 3 or more years of industry experience, including at least 1 year of experience with designing and managing solutions using Google Cloud Platform. Their solid knowledge of the topics covered in the qualifying exam is also required.

Google Certified Professional - Cloud Architect (GCP) Sample Questions (Q85-Q90):

NEW QUESTION # 85

For this question, refer to the TerramEarth 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 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.
- 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 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.
- 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: A

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 # 86

Your company wants to track whether someone is present in a meeting room reserved for a scheduled meeting. There are 1000 meeting rooms across 5 offices on 3 continents. Each room is equipped with a motion sensor that reports its status every second. The data from the motion detector includes only a sensor ID and several different discrete items of information. Analysts will use this data, together with information about account owners and office locations. Which database type should you use?

- **A. NoSQL**
- B. Relational
- C. Flat file
- D. Blobstore

Answer: A

Explanation:

Relational databases were not designed to cope with the scale and agility challenges that face modern applications, nor were they built to take advantage of the commodity storage and processing power available today.

NoSQL fits well for:



Incorrect Answers:

D: The Blobstore API allows your application to serve data objects, called blobs, that are much larger than the size allowed for objects in the Datastore service. Blobs are useful for serving large files, such as video or image files, and for allowing users to upload large data files.

References:

<https://www.mongodb.com/nosql-explained>

Topic 1, Mountkirk Games Case Study

Company Overview

Mountkirk Games makes online, session-based, multiplayer games for the most popular mobile platforms.

Company Background

Mountkirk Games builds all of their games with some server-side integration and has historically used cloud providers to lease physical servers. A few of their games were more popular than expected, and they had problems scaling their application servers, MySQL databases, and analytics tools.

Mountkirk's current model is to write game statistics to files and send them through an ETL tool that loads them into a centralized MySQL database for reporting.

Solution Concept

Mountkirk Games is building a new game, which they expect to be very popular. They plan to deploy the game's backend on Google Compute Engine so they can capture streaming metrics, run intensive analytics and take advantage of its autoscaling server environment and integrate with a managed NoSQL database.

Technical Requirements

Requirements for Game Backend Platform

1. Dynamically scale up or down based on game activity.
2. Connect to a managed NoSQL database service.
3. Run customized Linux distro.

Requirements for Game Analytics Platform

1. Dynamically scale up or down based on game activity.
2. Process incoming data on the fly directly from the game servers.
3. Process data that arrives late because of slow mobile networks.
4. Allow SQL queries to access at least 10 TB of historical data.
5. Process files that are regularly uploaded by users' mobile devices.
6. Use only fully managed services

CEO Statement

Our last successful game did not scale well with our previous cloud provider, resulting in lower user adoption and affecting the game's reputation. Our investors want more key performance indicators (KPIs) to evaluate the speed and stability of the game, as well as other metrics that provide deeper insight into usage patterns so we can adapt the game to target users.

CTO Statement

Our current technology stack cannot provide the scale we need, so we want to replace MySQL and move to an environment that provides autoscaling, low latency load balancing, and frees us up from managing physical servers.

CFO Statement

We are not capturing enough user demographic data usage metrics, and other KPIs. As a result, we do not engage the right users. We are not confident that our marketing is targeting the right users, and we are not selling enough premium Blast-Ups inside the games, which dramatically impacts our revenue.

NEW QUESTION # 87

You deploy your custom java application to google app engine.

It fails to deploy and gives you the following stack trace:

```

Java.lang.SecurityException: SHA1 digest
    At com.google.appengine.runtime.Request.pr
    At
    Sun.security.util.manifestEntryVerifier.ver
    At java.net.URLClassLoader.defineCla
    At sun.reflect.GeneratedMethodAccessors
    At
    Sun.reflect.DelegatingMethodAccesorImpl.
    At java.lang.reflect.MThod.invoke
  
```

- A. Upload missing JAR files and redeploy your application
- B. Recompile the CLoakedServlet class using and MD5 hash instead of SHA1
- C. Digitally sign all of your JAR files and redeploy your application.

Answer: C

NEW QUESTION # 88

You need to deploy a stateful workload on Google Cloud. The workload can scale horizontally, but each instance needs to read and write to the same POSIX filesystem. At high load, the stateful workload needs to support up to 100 MB/s of writes. What should

you do?

- A. Use a regional persistent disk for each instance.
- **B. Create a Cloud Filestore instance and mount it in each instance.**
- C. Create a Cloud Storage bucket and mount it in each instance using gcsfuse.
- D. Use a persistent disk for each instance.

Answer: B

NEW QUESTION # 89

Your company has an application running on multiple Compute Engine instances. You need to ensure that the application can communicate with an on-premises service that requires high throughput via internal IPs, while minimizing latency. What should you do?

- A. Use OpenVPN to configure a VPN tunnel between the on-premises environment and Google Cloud.
- B. Configure a direct peering connection between the on-premises environment and Google Cloud.
- **C. Configure a Cloud Dedicated Interconnect connection between the on-premises environment and Google Cloud.**
- D. Use Cloud VPN to configure a VPN tunnel between the on-premises environment and Google Cloud.

Answer: C

Explanation:

Reference <https://cloud.google.com/architecture/setting-up-private-access-to-cloud-apis-through-vpn-tunnels>

NEW QUESTION # 90

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