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Google Certified Professional - Cloud Architect (GCP) Sample Questions (Q202-Q207):

NEW QUESTION # 202

For this question, refer to the Mountkirk Games case study.

Mountkirk Games has deployed their new backend on Google Cloud Platform (GCP). You want to create a thorough testing process for new versions of the backend before they are released to the public. You want the testing environment to scale in an economical way. How should you design the process?

- A. Use the existing infrastructure to test the GCP-based backend at scale.
- B. Build stress tests into each component of your application using resources internal to GCP to simulate load.
- C. Create a set of static environments in GCP to test different levels of load - for example, high, medium, and low.
- **D. Create a scalable environment in GCP for simulating production load.**

Answer: D

Explanation:

Explanation

From scenario: Requirements for Game Backend Platform

* Dynamically scale up or down based on game activity

* Connect to a managed NoSQL database service

* Run customize Linux distro

NEW QUESTION # 203

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

Answer: D

Explanation:

Reference:

<https://cloud.google.com/compute/docs/instance-groups/autohealing-instances-in-migs> Health checks used for autohealing should be conservative so they don't preemptively delete and recreate your instances. When an autohealer health check is too aggressive, the autohealer might mistake busy instances for failed instances and unnecessarily restart them, reducing availability

NEW QUESTION # 204

Your customer wants to do resilience testing of their authentication layer. This consists of a regional managed instance group serving a public REST API that reads from and writes to a Cloud SQL instance.

What should you do?

- A. Configure a read replica for your Cloud SQL instance in a different zone than the master, and then manually trigger a failover while monitoring KPIs for our REST API.
- **B. Deploy intrusion detection software to your virtual machines to detect and log unauthorized access.**
- C. Schedule a disaster simulation exercise during which you can shut off all VMs in a zone to see how your application behaves.
- D. Engage with a security company to run web scrapers that look your users' authentication data on malicious websites and notify you if any if found.

Answer: B

NEW QUESTION # 205

Case Study: 6 - TerramEarth

Company Overview

TerramEarth manufactures heavy equipment for the mining and agricultural industries. About

80% of their business is from mining and 20% from agriculture. They currently have over 500 dealers and service centers in 100

countries. Their mission is to build products that make their customers more productive.

Solution Concept

There are 20 million TerramEarth vehicles in operation that collect 120 fields of data per second.

Data is stored locally on the vehicle and can be accessed for analysis when a vehicle is serviced.

The data is downloaded via a maintenance port. This same port can be used to adjust operational parameters, allowing the vehicles to be upgraded in the field with new computing modules.

Approximately 200,000 vehicles are connected to a cellular network, allowing TerramEarth to collect data directly. At a rate of 120 fields of data per second with 22 hours of operation per day, TerramEarth collects a total of about 9 TB/day from these connected vehicles.

Existing Technical Environment

TerramEarth's existing architecture is composed of Linux and Windows-based systems that reside in a single U.S. west coast based data center. These systems gzip CSV files from the field and upload via FTP, and place the data in their data warehouse. Because this process takes time, aggregated reports are based on data that is 3 weeks old.

With this data, TerramEarth has been able to preemptively stock replacement parts and reduce unplanned downtime of their vehicles by 60%. However, because the data is stale, some customers are without their vehicles for up to 4 weeks while they wait for replacement parts.

Business Requirements

Decrease unplanned vehicle downtime to less than 1 week.

- * Support the dealer network with more data on how their customers use their equipment to better

- * position new products and services

Have the ability to partner with different companies - especially with seed and fertilizer suppliers

- * in the fast-growing agricultural business - to create compelling joint offerings for their customers.

Technical Requirements

Expand beyond a single datacenter to decrease latency to the American Midwest and east

- * coast.

Create a backup strategy.

- * Increase security of data transfer from equipment to the datacenter.

- * Improve data in the data warehouse.

- * Use customer and equipment data to anticipate customer needs.

- * Application 1: Data ingest

A custom Python application reads uploaded datafiles from a single server, writes to the data warehouse.

Compute:

Windows Server 2008 R2

- * - 16 CPUs

- 128 GB of RAM

- 10 TB local HDD storage

Application 2: Reporting

An off the shelf application that business analysts use to run a daily report to see what equipment needs repair. Only 2 analysts of a team of 10 (5 west coast, 5 east coast) can connect to the reporting application at a time.

Compute:

Off the shelf application. License tied to number of physical CPUs

- * - Windows Server 2008 R2

- 16 CPUs

- 32 GB of RAM

- 500 GB HDD

Data warehouse:

A single PostgreSQL server

- * - RedHat Linux

- 64 CPUs

- 128 GB of RAM

- 4x 6TB HDD in RAID 0

Executive Statement

Our competitive advantage has always been in the manufacturing process, with our ability to build better vehicles for lower cost than our competitors. However, new products with different approaches are constantly being developed, and I'm concerned that we lack the skills to undergo the next wave of transformations in our industry. My goals are to build our skills while addressing immediate market needs through incremental innovations.

For this question, refer to the TerramEarth case study. TerramEarth has decided to store data files in Cloud Storage. You need to configure Cloud Storage lifecycle rule to store 1 year of data and minimize file storage cost.

Which two actions should you take?

- A. Create a Cloud Storage lifecycle rule with Age: "30", Storage Class: "Standard", and Action: "Set to Coldline", and create

- a second GCS life-cycle rule with Age: "365", Storage Class: "Coldline", and Action: "Delete".
- B. Create a Cloud Storage lifecycle rule with Age: "90", Storage Class: "Standard", and Action: "Set to Nearline", and create a second GCS life-cycle rule with Age: "91", Storage Class: "Nearline", and Action: "Set to Coldline".
- C. Create a Cloud Storage lifecycle rule with Age: "30", Storage Class: "Coldline", and Action: "Set to Nearline", and create a second GCS life-cycle rule with Age: "91", Storage Class: "Coldline", and Action: "Set to Nearline".
- D. Create a Cloud Storage lifecycle rule with Age: "30", Storage Class: "Standard", and Action: "Set to Coldline", and create a second GCS life-cycle rule with Age: "365", Storage Class: "Nearline", and Action: "Delete".

Answer: D

NEW QUESTION # 206

For this question, refer to the TerramEarth case study.

TerramEarth has equipped unconnected trucks with servers and sensors to collect telemetry data. Next year they want to use the data to train machine learning models. They want to store this data in the cloud while reducing costs. What should they do?

- A. Have the vehicle's computer compress the data in hourly snapshots, and store it in a GCS Coldline bucket.
- B. Push the telemetry data in real-time to a streaming dataflow job that compresses the data, and store it in Cloud Bigtable.
- C. Have the vehicle's computer compress the data in hourly snapshots, and store it in a Google Cloud storage (GCS) Nearline bucket.
- D. Push the telemetry data in Real-time to a streaming dataflow job that compresses the data, and store it in Google BigQuery.

Answer: A

Explanation:

Coldline Storage is the best choice for data that you plan to access at most once a year, due to its slightly lower availability, 90-day minimum storage duration, costs for data access, and higher per-operation costs. For example:

Cold Data Storage - Infrequently accessed data, such as data stored for legal or regulatory reasons, can be stored at low cost as Coldline Storage, and be available when you need it.

Disaster recovery - In the event of a disaster recovery event, recovery time is key. Cloud Storage provides low latency access to data stored as Coldline Storage.

References: <https://cloud.google.com/storage/docs/storage-classes>

NEW QUESTION # 207

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