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Google Certified Professional - Cloud Architect (GCP) Sample Questions

(Q59-Q64):

NEW QUESTION # 59

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. Assign a public IP to each instance and configure a firewall rule to allow the load balancer to reach the instance public IP.
- B. Ensure that a firewall rule exists to allow source traffic on HTTP/HTTPS to reach the load balancer.
- 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 # 60

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

Mountkirk Games wants to set up a real-time analytics platform for their new game. The new platform must meet their technical requirements. Which combination of Google technologies will meet all of their requirements?

- A. Container Engine, Cloud Pub/Sub, and Cloud SQL
- B. Cloud Pub/Sub, Compute Engine, Cloud Storage, and Cloud Dataproc
- C. Cloud Dataproc, Cloud Pub/Sub, Cloud SQL, and Cloud Dataflow
- D. **Cloud Dataflow, Cloud Storage, Cloud Pub/Sub, and BigQuery**
- E. Cloud SQL, Cloud Storage, Cloud Pub/Sub, and Cloud Dataflow

Answer: D

Explanation:

A real time requires Stream / Messaging so Pub/Sub, Analytics by Big Query.

Ingest millions of streaming events per second from anywhere in the world with Cloud Pub/Sub, powered by Google's unique, high-speed private network. Process the streams with Cloud Dataflow to ensure reliable, exactly-once, low-latency data transformation. Stream the transformed data into BigQuery, the cloud-native data warehousing service, for immediate analysis via SQL or popular visualization tools.

From scenario: They plan to deploy the game's backend on Google Compute Engine so they can capture streaming metrics, run intensive analytics.

Requirements for Game Analytics Platform

Dynamically scale up or down based on game activity

Process incoming data on the fly directly from the game servers

Process data that arrives late because of slow mobile networks

Allow SQL queries to access at least 10 TB of historical data

Process files that are regularly uploaded by users' mobile devices

Use only fully managed services

NEW QUESTION # 61

For this question, refer to the TerramEarth case study.

The TerraEarth development team wants to create an API to meet the company's business requirements. You want the development team to focus their development effort on business value versus creating a custom framework. Which method should they use?

- A. Use Google App Engine with the Swagger (open API Specification) framework. Focus on an API for the public.
- B. Use Google Container Engine with a Tomcat container with the Swagger (Open API Specification) framework. Focus on an API for dealers and partners.
- C. Use Google Container Engine with a Django Python container. Focus on an API for the public.
- D. Use Google App Engine with a JAX-RS Jersey Java-based framework. Focus on an API for the public.
- E. Use Google App Engine with Google Cloud Endpoints. Focus on an API for dealers and partners.

Answer: E

Explanation:

Explanation

https://cloud.google.com/endpoints/docs/openapi/about-cloud-endpoints?hl=en_US&_ga=2.21787131.-1712523

<https://cloud.google.com/endpoints/docs/openapi/architecture-overview>

<https://cloud.google.com/storage/docs/gsutil/commands/test>

Develop, deploy, protect and monitor your APIs with Google Cloud Endpoints. Using an Open API Specification or one of our API frameworks, Cloud Endpoints gives you the tools you need for every phase of API development.

From scenario:

Business Requirements

Decrease unplanned vehicle downtime to less than 1 week, without increasing the cost of carrying surplus inventory. 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.

Reference: <https://cloud.google.com/certification/guides/cloud-architect/casestudy-terraearth>

NEW QUESTION # 62

Your development teams release new versions of games running on Google Kubernetes Engine (GKE) daily.

You want to create service level indicators (SLIs) to evaluate the quality of the new versions from the user's perspective. What should you do?

- A. Create Server Uptime and Error Rate as service level indicators.
- B. Create CPU Utilization and Request Latency as service level indicators.
- C. Create Request Latency and Error Rate as service level indicators.
- D. Create GKE CPU Utilization and Memory Utilization as service level indicators.

Answer: C

Explanation:

Topic 10, Helicopter Racing League

Company Overview

Helicopter Racing League (HRL) is a global sports league for competitive helicopter racing. Each year HRL holds the world championship and several regional league competitions where teams compete to earn a spot in the world championship. HRL offers a paid service to stream the races all over the world with live telemetry and predictions throughout each race.

Solution concept

HRL wants to migrate their existing service to a new platform to expand their use of managed AI and ML services to facilitate race predictions. Additionally, as new fans engage with the sport, particularly in emerging regions, they want to move the serving of their content, both real-time and recorded, closer to their users.

Existing technical environment

HRL is a public cloud-first company; the core of their mission-critical applications runs on their current public cloud provider. Video recording and editing is performed at the race tracks, and the content is encoded and transcoded, where needed, in the cloud. Enterprise-grade connectivity and local compute is provided by truck-mounted mobile data centers. Their race prediction services are hosted exclusively on their existing public cloud provider. Their existing technical environment is as follows:

Existing content is stored in an object storage service on their existing public cloud provider.

Video encoding and transcoding is performed on VMs created for each job.

Race predictions are performed using TensorFlow running on VMs in the current public cloud provider.

Business Requirements

HRL's owners want to expand their predictive capabilities and reduce latency for their viewers in emerging markets. Their

requirements are:

Support ability to expose the predictive models to partners.

Increase predictive capabilities during and before races:

* Race results

* Mechanical failures

* Crowd sentiment

Increase telemetry and create additional insights.

Measure fan engagement with new predictions.

Enhance global availability and quality of the broadcasts.

Increase the number of concurrent viewers.

Minimize operational complexity.

Ensure compliance with regulations.

Create a merchandising revenue stream

Technical Requirements

Maintain or increase prediction throughput and accuracy.

Reduce viewer latency.

Increase transcoding performance.

Create real-time analytics of viewer consumption patterns and engagement.

Create a data mart to enable processing of large volumes of race data.

Executive statement

Our CEO, S. Hawke, wants to bring high-adrenaline racing to fans all around the world. We listen to our fans, and they want enhanced video streams that include predictions of events within the race (e.g., overtaking). Our current platform allows us to predict race outcomes but lacks the facility to support real-time predictions during races and the capacity to process season-long results.

NEW QUESTION # 63

Your company has just recently activated Cloud Identity to manage users. The Google Cloud Organization has been configured as wed. The security learn needs to secure protects that will be part of the Organization.

They want to prohibit IAM users outside the domain from gaining permissions from now on. What should they do?

- A. Configure an organization policy to block creation of service accounts
- B. **Configure Cloud Scheduler o trigger a Cloud Function every hour that removes all users that don't belong to the Cloud identity domain from all projects.**
- C. Create a technical user (e.g., crawler@yourdomain.com), and give it the protect owner role at root organization level
Write a bash script that
 - * Lists all me IAM rules of all projects within the organization
 - * Deletes all users that do not belong to the company domainCreate a Compute Engine instance in a project within the Organization and configure gcloud to be executed with technical user credentials
- D. Configure an organization policy to restrict identities by domain

Answer: B

Explanation:

<https://cloud.google.com/resource-manager/docs/organization-policy/restricting-domains>

NEW QUESTION # 64

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