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QUESTION 1

You are migrating a business critical application from your local data center into Google Cloud. As part of your high-availability strategy, you want to ensure that any data used by the application will be immediately available if a zonal failure occurs. What should you do?

A. Store the application data on a zonal persistent disk. Create a snapshot schedule for the disk. If an outage occurs, create a new disk from the most recent snapshot and attach it to a new VM in another zone.

B. Store the application data on a zonal persistent disk. If an outage occurs, create an instance in another zone with this disk attached.

C. Store the application data on a regional persistent disk. Create a snapshot schedule for the disk. If an outage occurs, create a new disk from the most recent snapshot and attach it to a new VM in another zone.

D. Store the application data on a regional persistent disk. If an outage occurs, create an instance in another zone with this disk attached.

Correct Answer: D

The benefit of regional persistent disks is that in the event of a zonal outage, where your virtual machine (VM) instance might become unavailable, you can usually force attach a regional persistent disk to a VM instance in a secondary zone in the same region.

QUESTION 2

You have an application that receives SSL-encrypted TCP traffic on port 443. Clients for this application are located all over the world. You want to minimize latency for the clients. Which load balancing option should you use?

A. HTTPS Load Balancer

B. Network Load Balancer

C. SSL Proxy Load Balancer

D. Internal TCP/UDP Load Balancer. Add a firewall rule allowing ingress traffic from 0.0.0.0/0 on the target instances.

Correct Answer: C

Reference: https://cloud.google.com/load-balancing/docs/ssl

QUESTION 3

Your team is building a website that handles votes from a large user population. The incoming votes will arrive at various rates. You want to optimize the storage and processing of the votes. What should you do?

A. Save the incoming votes to Firestore. Use Cloud Scheduler to trigger a Cloud Functions instance to periodically process the votes.

B. Use a dedicated instance to process the incoming votes. Send the votes directly to this instance.

C. Save the incoming votes to a JSON file on Cloud Storage. Process the votes in a batch at the end of the day.

D. Save the incoming votes to Pub/Sub. Use the Pub/Sub topic to trigger a Cloud Functions instance to process the votes.

Correct Answer: D

Explanation: Pub/Sub is a scalable and reliable messaging service that can handle large volumes of data from different sources at different rates. It allows you to decouple the producers and consumers of the data, and provides a durable and persistent storage for the messages until they are delivered. Cloud Functions is a serverless platform that can execute code in response to events, such as messages published to a Pub/Sub topic. It can scale automatically based on the load, and you only pay for the resources you use. By using Pub/Sub and Cloud Functions, you can optimize the storage and processing of the votes, as you can handle the variable rates of incoming votes, process them in real time or near real time, and avoid managing servers or VMs. References: Pub/Sub documentation Cloud Functions documentation Choosing a messaging service for Google Cloud

QUESTION 4

Your team has created 4 projects, one for each distinct application. You have a single budget for all of these projects. What is the best way to pay for all of these projects?

A. Create a Billing Account for each project.

B. Use an invoiced account, which will pay for all projects inside a Google Cloud account.

C. Use a single Billing Account linked to all 4 projects.

D. Use a single Billing Account linked to the Google Cloud account.

Correct Answer: C

QUESTION 5

You need to enable traffic between multiple groups of Compute Engine instances that are currently running two different GCP projects. Each group of Compute Engine instances is running in its own VPC. What should you do?

A. Verify that both projects are in a GCP Organization. Create a new VPC and add all instances.

B. Verify that both projects are in a GCP Organization. Share the VPC from one project and request that the Compute Engine instances in the other project use this shared VPC.

C. Verify that you are the Project Administrator of both projects. Create two new VPCs and add all instances.

D. Verify that you are the Project Administrator of both projects. Create a new VPC and add all instances.

Correct Answer: B

Verify that both projects are in a GCP Organization. Share the VPC from one project and request that the Compute Engine instances in the other project use this shared VPC.