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QUESTION 1

You have containerized a legacy application that stores its configuration on an NFS share. You need to deploy this application to Google Kubernetes Engine (GKE) and do not want the application serving traffic until after the configuration has been retrieved. What should you do?

A. Use the gsutil utility to copy files from within the Docker container at startup, and start the service using an ENTRYPOINT script.

B. Create a PersistentVolumeClaim on the GKE cluster. Access the configuration files from the volume, and start the service using an ENTRYPOINT script.

C. Use the COPY statement in the Dockerfile to load the configuration into the container image. Verify that the configuration is available, and start the service using an ENTRYPOINT script.

D. Add a startup script to the GKE instance group to mount the NFS share at node startup. Copy the configuration files into the container, and start the service using an ENTRYPOINT script.

Correct Answer: B

Reference: https://cloud.google.com/compute/docs/instances/startup-scripts/linux

QUESTION 2

You plan to make a simple HTML application available on the internet. This site keeps information about FAQs for your application. The application is static and contains images, HTML, CSS, and Javascript. You want to make this application available on the internet with as few steps as possible.

What should you do?

A. Upload your application to Cloud Storage.

B. Upload your application to an App Engine environment.

C. Create a Compute Engine instance with Apache web server installed. Configure Apache web server to host the application.

D. Containerize your application first. Deploy this container to Google Kubernetes Engine (GKE) and assign an external IP address to the GKE pod hosting the application.

Correct Answer: A

Reference: https://cloud.google.com/storage/docs/hosting-static-website

QUESTION 3

Your security team is auditing all deployed applications running in Google Kubernetes Engine. After completing the audit, your team discovers that some of the applications send traffic within the cluster in clear text. You need to ensure that all application traffic is encrypted as quickly as possible while minimizing changes to your applications and maintaining support from Google. What should you do?

A. Use Network Policies to block traffic between applications.

B. Install Istio, enable proxy injection on your application namespace, and then enable mTLS.

C. Define Trusted Network ranges within the application, and configure the applications to allow traffic only from those networks.

D. Use an automated process to request SSL Certificates for your applications from Let\\'s Encrypt and add them to your applications.

Correct Answer: D

QUESTION 4

You want to use the Stackdriver Logging Agent to send an application\\'s log file to Stackdriver from a Compute Engine virtual machine instance.

After installing the Stackdriver Logging Agent, what should you do first?

A. Enable the Error Reporting API on the project.

B. Grant the instance full access to all Cloud APIs.

C. Configure the application log file as a custom source.

D. Create a Stackdriver Logs Export Sink with a filter that matches the application\\'s log entries.

Correct Answer: B

QUESTION 5

You are designing an application that will subscribe to and receive messages from a single Pub/Sub topic and insert corresponding rows into a database. Your application runs on Linux and leverages preemptible virtual machines to reduce costs. You need to create a shutdown script that will initiate a graceful shutdown. What should you do?

A. Write a shutdown script that uses inter-process signals to notify the application process to disconnect from the database.

B. Write a shutdown script that broadcasts a message to all signed-in users that the Compute Engine instance is going down and instructs them to save current work and sign out.

C. Write a shutdown script that writes a file in a location that is being polled by the application once every five minutes. After the file is read, the application disconnects from the database.

D. Write a shutdown script that publishes a message to the Pub/Sub topic announcing that a shutdown is in progress. After the application reads the message, it disconnects from the database.

Correct Answer: D