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QUESTION 1

You are running a real-time gaming application on Compute Engine that has a production and testing environment. Each environment has their own Virtual Private Cloud (VPC) network. The application frontend and backend servers are located on different subnets in the environment\\'s VPC. You suspect there is a malicious process communicating intermittently in your production frontend servers. You want to ensure that network traffic is captured for analysis. What should you do?

A. Enable VPC Flow Logs on the production VPC network frontend and backend subnets only with a sample volume scale of 0.5.

B. Enable VPC Flow Logs on the production VPC network frontend and backend subnets only with a sample volume scale of 1.0.

C. Enable VPC Flow Logs on the testing and production VPC network frontend and backend subnets with a volume scale of 0.5. Apply changes in testing before production.

D. Enable VPC Flow Logs on the testing and production VPC network frontend and backend subnets with a volume scale of 1.0. Apply changes in testing before production.

Correct Answer: B

https://cloud.google.com/vpc/docs/flow-logs#log-sampling

QUESTION 2

You are creating a CI/CD pipeline in Cloud Build to build an application container image. The application code is stored in GitHub. Your company requires that production image builds are only run against the main branch and that the change control team approves all pushes to the main branch. You want the image build to be as automated as possible. What should you do? (Choose two.)

A. Create a trigger on the Cloud Build job. Set the repository event setting to 'Pull request'.

B. Add the OWNERS file to the Included files filter on the trigger.

C. Create a trigger on the Cloud Build job. Set the repository event setting to 'Push to a branch'

D. Configure a branch protection rule for the main branch on the repository.

E. Enable the Approval option on the trigger.

Correct Answer: CD

Option C: Setting the repository event setting to 'Push to a branch' will trigger the Cloud Build job whenever a push is made to any branch in the repository. This is necessary because you want the image build to be triggered when a push is

made to the main branch.

Option D: Configuring a branch protection rule for the main branch on the repository will require that all pushes to the main branch be approved by the change control team. This is necessary to ensure that only approved changes are made to

the main branch, which will then trigger the image build.

QUESTION 3

You are responsible for creating and modifying the Terraform templates that define your Infrastructure. Because two new engineers will also be working on the same code, you need to define a process and adopt a tool that will prevent you from overwriting each other\\'s code. You also want to ensure that you capture all updates in the latest version. What should you do?

A. Store your code in a Git-based version control system. Establish a process that allows developers to merge their own changes at the end of each day. Package and upload code to a versioned Cloud Storage basket as the latest master version.

B. Store your code in a Git-based version control system. Establish a process that includes code reviews by peers and unit testing to ensure integrity and functionality before integration of code. Establish a process where the fully integrated code in the repository becomes the latest master version.

C. Store your code as text files in Google Drive in a defined folder structure that organizes the files. At the end of each day, confirm that all changes have been captured in the files within the folder structure. Rename the folder structure with a predefined naming convention that increments the version.

D. Store your code as text files in Google Drive in a defined folder structure that organizes the files. At the end of each day, confirm that all changes have been captured in the files within the folder structure and create a new .zip archive with a predefined naming convention. Upload the .zip archive to a versioned Cloud Storage bucket and accept it as the latest version.

Correct Answer: B

Using a Git-based version control system such as GitHub or GitLab is a best practice for managing code in a collaborative environment. It provides a central repository where all changes are tracked and versioned, and it also allows for concurrent development by multiple team members.

Establishing a process that includes code reviews by peers and unit testing before merging changes ensures the integrity and functionality of the code, and it also helps to prevent conflicts and errors.

Once the changes are fully integrated and tested, the latest version of the code in the repository should be considered the master version, and this should be the version that is used for deployment.

QUESTION 4

You support the backend of a mobile phone game that runs on a Google Kubernetes Engine (GKE) cluster. The application is serving HTTP requests from users. You need to implement a solution that will reduce the network cost. What should you do?

A. Configure the VPC as a Shared VPC Host project.

B. Configure your network services on the Standard Tier.

C. Configure your Kubernetes duster as a Private Cluster.

D. Configure a Google Cloud HTTP Load Balancer as Ingress.

Correct Answer: D

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https://cloud.google.com/architecture/best-practices-for-running-cost-effective-kubernetes-applications-on-gke

QUESTION 5

You encounter a large number of outages in the production systems you support. You receive alerts for all the outages that wake you up at night. The alerts are due to unhealthy systems that are automatically restarted within a minute. You want to set up a process that would prevent staff burnout while following Site Reliability Engineering practices. What should you do?

A. Eliminate unactionable alerts.

B. Create an incident report for each of the alerts.

C. Distribute the alerts to engineers in different time zones.

D. Redefine the related Service Level Objective so that the error budget is not exhausted.

Correct Answer: A

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