PROFESSIONAL-CLOUD-DEVOPS-ENGINEER Q&As

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QUESTION 1

You need to enforce several constraint templates across your Google Kubernetes Engine (GKE) clusters. The constraints include policy parameters, such as restricting the Kubernetes API. You must ensure that the policy parameters are stored in a GitHub repository and automatically applied when changes occur. What should you do?

A. Set up a GitHub action to trigger Cloud Build when there is a parameter change. In Cloud Build, run a gcloud CLI command to apply the change.

B. When there is a change in GitHub. use a web hook to send a request to Anthos Service Mesh, and apply the change.

C. Configure Anthos Config Management with the GitHub repository. When there is a change in the repository, use Anthos Config Management to apply the change.

D. Configure Config Connector with the GitHub repository. When there is a change in the repository, use Config Connector to apply the change.

Correct Answer: C

https://medium.com/@kasiarun/introduction-to-anthos-config-management-1a43917c26ae

QUESTION 2

You support a web application that runs on App Engine and uses CloudSQL and Cloud Storage for data storage. After a short spike in website traffic, you notice a big increase in latency for all user requests, increase in CPU use, and the

number of processes running the application. Initial troubleshooting reveals:

After the initial spike in traffic, load levels returned to normal but users still experience high latency.

Requests for content from the CloudSQL database and images from Cloud Storage show the same high latency.

No changes were made to the website around the time the latency increased.

There is no increase in the number of errors to the users.

You expect another spike in website traffic in the coming days and want to make sure users don\\'t experience latency. What should you do?

A. Upgrade the GCS buckets to Multi-Regional.

B. Enable high availability on the CloudSQL instances.

C. Move the application from App Engine to Compute Engine.

D. Modify the App Engine configuration to have additional idle instances.

Correct Answer: D

Scaling App Engine scales the number of instances automatically in response to processing volume. This scaling factors in the automatic_scaling settings that are provided on a per-version basis in the configuration file. A service with basic scaling is configured by setting the maximum number of instances in the max_instances parameter of the

basic_scaling setting. The number of live instances scales with the processing volume. You configure the number of instances of each version in that service\\'s configuration file. The number of instances usually corresponds to the size of a dataset being held in memory or the desired throughput for offline work. You can adjust the number of instances of a manually-scaled version very quickly, without stopping instances that are currently running, using the Modules API set_num_instances function.

https://cloud.google.com/appengine/docs/standard/python/how-instances-are-managed

QUESTION 3

Your team is running microservices in Google Kubernetes Engine (GKE). You want to detect consumption of an error budget to protect customers and define release policies. What should you do?

A. Create SLIs from metrics. Enable Alert Policies if the services do not pass.

B. Use the metrics from Anthos Service Mesh to measure the health of the microservices.

C. Create a SLO. Create an Alert Policy on select_slo_burn_rate.

D. Create a SLO and configure uptime checks for your services. Enable Alert Policies if the services do not pass.

Correct Answer: D

using metrics from Anthos Service Mesh, which can be helpful for monitoring, but it lacks the explicit focus on SLOs, uptime checks, and Alert Policies for managing error budgets and protecting customers.
https://cloud.google.com/service-mesh/docs/observability/alert-policy-slo

QUESTION 4

You need to build a CI/CD pipeline for a containerized application in Google Cloud. Your development team uses a central Git repository for trunk-based development. You want to run all your tests in the pipeline for any new versions of the application to improve the quality. What should you do?

A. 1. Install a Git hook to require developers to run unit tests before pushing the code to a central repository.

2.

Trigger Cloud Build to build the application container. Deploy the application container to a testing environment, and run integration tests.

3.

If the integration tests are successful, deploy the application container to your production environment, and run acceptance tests.

B. 1. Install a Git hook to require developers to run unit tests before pushing the code to a central repository. If all tests are successful, build a container.

2.

Trigger Cloud Build to deploy the application container to a testing environment, and run integration tests and acceptance tests.

3.

If all tests are successful, tag the code as production ready. Trigger Cloud Build to build and deploy the application container to the production environment.

C. 1. Trigger Cloud Build to build the application container, and run unit tests with the container.

2.

If unit tests are successful, deploy the application container to a testing environment, and run integration tests.

3.

If the integration tests are successful, the pipeline deploys the application container to the production environment. After that, run acceptance tests.

D. 1. Trigger Cloud Build to run unit tests when the code is pushed. If all unit tests are successful, build and push the application container to a central registry.

2.

Trigger Cloud Build to deploy the container to a testing environment, and run integration tests and acceptance tests.

3.

If all tests are successful, the pipeline deploys the application to the production environment and runs smoke tests

Correct Answer: D

QUESTION 5

Your team is designing a new application for deployment into Google Kubernetes Engine (GKE). You need to set up monitoring to collect and aggregate various application-level metrics in a centralized location. You want to use Google Cloud Platform services while minimizing the amount of work required to set up monitoring. What should you do?

A. Publish various metrics from the application directly to the Stackdriver Monitoring API, and then observe these custom metrics in Stackdriver.

B. Install the Cloud Pub/Sub client libraries, push various metrics from the application to various topics, and then observe the aggregated metrics in Stackdriver.

C. Install the OpenTelemetry client libraries in the application, configure Stackdriver as the export destination for the metrics, and then observe the application\\'s metrics in Stackdriver.

D. Emit all metrics in the form of application-specific log messages, pass these messages from the containers to the Stackdriver logging collector, and then observe metrics in Stackdriver.

Correct Answer: A

https://cloud.google.com/trace/docs/setup