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Google Professional-Cloud-DevOps-Engineer certification exam is designed for professionals who want to validate their expertise in deploying and managing applications on the Google Cloud Platform using DevOps practices. Google Cloud Certified - Professional Cloud DevOps Engineer Exam certification demonstrates the candidate's ability to design, build, and implement DevOps practices on the Google Cloud Platform, including continuous integration and delivery, infrastructure automation, and monitoring and logging. Google Cloud Certified - Professional Cloud DevOps Engineer Exam certification exam is intended for professionals with at least three years of industry experience, including one year of experience in DevOps, Site Reliability Engineering (SRE), or systems operations.

Google Professional-Cloud-DevOps-Engineer Certification Exam is an essential certification for professionals who want to validate their skills and expertise in Cloud DevOps engineering. It demonstrates to potential employers that the candidate has the necessary knowledge and experience to design, deploy, and manage applications on the Google Cloud platform. If you're a DevOps engineer looking to take your career to the next level, this certification is definitely worth considering.

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Google Professional-Cloud-DevOps-Engineer Certification Exam is an industry-recognized credential that validates the skills and knowledge of professionals in the field of DevOps. Google Cloud Certified - Professional Cloud DevOps Engineer Exam certification demonstrates that candidates have the ability to design and implement robust and scalable DevOps solutions using Google Cloud technologies. Google Cloud Certified - Professional Cloud DevOps Engineer Exam certification exam covers a broad range of topics including continuous integration and delivery, infrastructure as code, monitoring and logging, and automation of various DevOps processes.

Google Cloud Certified - Professional Cloud DevOps Engineer Exam Sample Questions (Q70-Q75):

NEW QUESTION # 70
Your development team has created a new version of their service's API. You need to deploy the new versions of the API with the least disruption to third-party developers and end users of third-party installed applications. What should you do?

- A. Announce deprecation of the old version of the API.Contact remaining users on the old API.Introduce the new version of the API.Deprecate the old version of the API.Provide best effort support to users of the old API.Turn down the old version of the API.
- B. Introduce the new version of the API.Contact remaining users of the old API.Announce deprecation of the old version of the API.Deprecate the old version of the API.Turn down the old version of the API.Provide best effort support to users of the old API.
- C. Introduce the new version of the API.Announce deprecation of the old version of the API.Deprecate the old version of the API.Contact remaining users of the old API.Provide best effort support to users of the old API.Turn down the old version of the API.
- D. Announce deprecation of the old version of the API.Introduce the new version of the API.Contact remaining users on the old API.Deprecate the old version of the API.Turn down the old version of the API.Provide best effort support to users of the old API.

Answer: C

NEW QUESTION # 71
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. When there is a change in GitHub, use a webhook to send a request to Cloud Service Mesh, and apply the change.
- B. Configure Config Connector with the GitHub repository. When there is a change in the repository, use Config Connector to apply the change.
- C. Configure Config Sync with the GitHub repository. When there is a change in the repository, use Config Sync to apply the change.
- D. 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.

Answer: C

Explanation:
Comprehensive and Detailed Explanation From General GKE and GitOps Knowledge:
The requirements are:
Enforce constraint templates (implying a policy agent like OPA Gatekeeper) on GKE.
Store policy parameters in a GitHub repository.
Automatically apply changes from the GitHub repository to the clusters.
This is a classic GitOps scenario.

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.This is a plausible CI/CD approach. GitHub Actions can trigger Cloud Build, which can then use kubectl or gcloud to apply configurations. However, this is a push-based imperative approach. GitOps tools offer a more declarative, pull-based model specifically designed for syncing Kubernetes configurations.
B: When there is a change in GitHub, use a webhook to send a request to Cloud Service Mesh, and apply the change.Cloud Service Mesh (based on Istio) is primarily for managing traffic, security, and observability for microservices. It's not designed for applying general Kubernetes policy configurations like Gatekeeper constraints from a Git repository.
C: Configure Config Sync with the GitHub repository. When there is a change in the repository, use Config Sync to apply the change.Config Sync is a Google Cloud product specifically designed for GitOps with GKE (and other Kubernetes clusters). It synchronizes configurations (including CustomResourceDefinitions for constraint templates and the constraints themselves) from a Git repository (like GitHub) to your clusters. It continuously monitors the repository and automatically applies any committed changes to the clusters, ensuring they remain in the desired state. This perfectly matches the requirements.
D: Configure Config Connector with the GitHub repository. When there is a change in the repository, use Config Connector to apply the change.Config Connector allows you to manage Google Cloud resources (like Pub/Sub topics, Spanner instances, etc.) using Kubernetes-style declarative configurations and kubectl. While it uses Kubernetes tooling, its primary purpose is managing Google Cloud resources, not syncing general Kubernetes configurations like Gatekeeper constraints from Git. Config Sync is the tool for syncing arbitrary Kubernetes manifests from Git to a cluster.
Config Sync is the Google Cloud tool built for the exact purpose described: maintaining consistency between Kubernetes cluster configurations and a Git repository using a GitOps model.
Reference (Based on Google Cloud GKE and Config Sync documentation):
Config Sync Overview: https://cloud.google.com/anthos-config-management/docs/config-sync-overview or https://cloud.google.com/kubernetes-engine/docs/add-on/config-sync/overview (if referring to it as a GKE add-on)."Config Sync is a GitOps tool that helps you keep your Google Kubernetes Engine (GKE) Enterprise edition clusters synchronized with configs stored in a Git repository." It supports syncing various Kubernetes objects, including CustomResources, which are used by OPA Gatekeeper for defining constraints and constraint templates.
It automatically pulls changes from the Git repository and applies them, which meets the "automatically applied when changes occur" requirement.

NEW QUESTION # 72
You are building and running client applications in Cloud Run and Cloud Functions Your client requires that all logs must be available for one year so that the client can import the logs into their logging service You must minimize required code changes What should you do?

- A. Create a logs bucket and logging sink. Set the retention on the logs bucket to 365 days Configure the logging sink to send logs to the bucket Give your client access to the bucket to retrieve the logs
- B. Create a Pub/Sub topic subscription and logging sink Configure the logging sink to send all logs into the topic Give your client access to the topic to retrieve the logs
- C. Update all images in Cloud Run and all functions in Cloud Functions to send logs to both Cloud Logging and the client's logging service Ensure that all the ports required to send logs are open in the VPC firewall
- D. Create a storage bucket and appropriate VPC firewall rules Update all images in Cloud Run and all functions in Cloud Functions to send logs to a file within the storage bucket

Answer: A

Explanation:
The best option for storing all logs for one year and minimizing required code changes is to create a logs bucket and logging sink, set the retention on the logs bucket to 365 days, configure the logging sink to send logs to the bucket, and give your client access to the bucket to retrieve the logs. A logs bucket is a Cloud Storage bucket that is used to store logs from Cloud Logging. A logging sink is a resource that defines where log entries are sent, such as a logs bucket, BigQuery dataset, or Pub/Sub topic. You can create a logs bucket and logging sink in Cloud Logging and set the retention on the logs bucket to 365 days. This way, you can ensure that all logs are stored for one year and protected from deletion. You can also configure the logging sink to send logs from Cloud Run and Cloud Functions to the logs bucket without any code changes. You can then give your client access to the logs bucket by using IAM policies or signed URLs.

NEW QUESTION # 73
You created a Stackdriver chart for CPU utilization in a dashboard within your workspace project. You want to share the chart with your Site Reliability Engineering (SRE) team only. You want to ensure you follow the principle of least privilege. What should you do?

- A. Click "Share chart by URL" and provide the URL to the SRE team. Assign the SRE team the Dashboard Viewer IAM role in the workspace project.
- B. Share the workspace Project ID with the SRE team. Assign the SRE team the Monitoring Viewer IAM role in the workspace project.
- C. Share the workspace Project ID with the SRE team. Assign the SRE team the Dashboard Viewer IAM role in the workspace project.
- D. Click "Share chart by URL" and provide the URL to the SRE team. Assign the SRE team the Monitoring Viewer IAM role in the workspace project.

Answer: D

Explanation:
https://cloud.google.com/monitoring/access-control

NEW QUESTION # 74
You support a trading application written in Python and hosted on App Engine flexible environment. You want to customize the error information being sent to Stackdriver Error Reporting. What should you do?

- A. Install the Stackdriver Error Reporting library for Python, and then run your code on Google Kubernetes Engine.
- B. Use the Stackdriver Error Reporting API to write errors from your application to ReportedErrorEvent, and then generate log entries with properly formatted error messages in Stackdriver Logging.
- C. Install the Stackdriver Error Reporting library for Python, and then run your code on a Compute Engine VM.
- D. Install the Stackdriver Error Reporting library for Python, and then run your code on App Engine flexible environment.

Answer: B

Explanation:
https://cloud.google.com/error-reporting/docs/formatting-error-messages
https://cloud.google.com/error-reporting/docs/reference/libraries#client-libraries-install-python no need to install error reporting library on App Engine Flex.

NEW QUESTION # 75
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