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The Google Professional-Cloud-DevOps-Engineer exam is designed for professionals who have experience in cloud computing, DevOps, and software development. It covers a wide range of topics such as infrastructure automation, configuration management, continuous integration and delivery, and monitoring and logging. Professional-Cloud-DevOps-Engineer Exam also includes hands-on experience with Google Cloud Platform tools and services, such as Kubernetes, Cloud Build, and Cloud Monitoring.

Google Cloud Certified - Professional Cloud DevOps Engineer Exam Sample Questions (Q38-Q43):

NEW QUESTION # 38
You are designing a system with three different environments: development, quality assurance (QA), and production.
Each environment will be deployed with Terraform and has a Google Kubemetes Engine (GKE) cluster created so that application teams can deploy their applications. Anthos Config Management will be used and templated to deploy infrastructure level resources in each GKE cluster. All users (for example, infrastructure operators and application owners) will use GitOps. How should you structure your source control repositories for both Infrastructure as Code (laC) and application code?

- A. Cloud Infrastructure (Terraform) repository is shared: different branches are different environmentsGKE Infrastructure (Anthos Config Management Kustomize manifests) repository is shared: differentoverlay directories are different environmentsApplication (app source code) repository is shared: different directories are different features
- B. Cloud Infrastructure (Terraform) repository is shared: different directories are different environmentsGKE Infrastructure (Anthos Config Management Kustomize manifests) repositories are separated:different branches are different environmentsApplication (app source code) repositories are separated: different branches are different features
- C. Cloud Infrastructure (Terraform) repository is shared: different directories are different environmentsGKE Infrastructure (Anthos Config Management Kustomize manifests) repository is shared: differentoverlay directories are different environmentsApplication (app source code) repositories are separated: different branches are different features
- D. Cloud Infrastructure (Terraform) repositories are separated: different branches are different environmentsGKE Infrastructure (Anthos Config Management Kustomize manifests) repositories are separated:different overlay directories are different environmentsApplication (app source code) repositories are separated: different branches are different features

Answer: B

Explanation:
The correct answer is B. Cloud Infrastructure (Terraform) repository is shared: different directories are different environments. GKE Infrastructure (Anthos Config Management Kustomize manifests) repositories are separated: different branches are different environments. Application (app source code) repositories are separated: different branches are different features.
This answer follows the best practices for using Terraform and Anthos Config Management with GitOps, as described in the following sources:
For Terraform, it is recommended to use a single repository for all environments, and use directories to separate them. This way, you can reuse the same Terraform modules and configurations across environments, and avoid code duplication and drift.You can also use Terraform workspaces to isolate the state files for each environment12.
For Anthos Config Management, it is recommended to use separate repositories for each environment, and use branches to separate the clusters within each environment. This way, you can enforce different policies and configurations for each environment, and use pull requests to promote changes across environments.You can also use Kustomize to create overlays for each cluster that apply specific patches or customizations34.
For application code, it is recommended to use separate repositories for each application, and use branches to separate the features or bug fixes for each application. This way, you can isolate the development and testing of each application, and use pull requests to merge changes into the main branch.You can also use tags or labels to trigger deployments to different environments5.
References:
1:Best practices for using Terraform | Google Cloud
2: Terraform Recommended Practices - Part 1 | Terraform - HashiCorp Learn
3:Deploy Anthos on GKE with Terraform part 1: GitOps with Config Sync | Google Cloud Blog
4: Using Kustomize with Anthos Config Management | Anthos Config Management Documentation | Google Cloud
5: Deploy Anthos on GKE with Terraform part 3: Continuous Delivery with Cloud Build | Google Cloud Blog GitOps-style continuous delivery with Cloud Build | Cloud Build Documentation | Google Cloud

NEW QUESTION # 39
You use Google Cloud Managed Service for Prometheus with managed collection to gather metrics from your service running on Google Kubemetes Engine (GKE). After deploying the service, there is no metric data appearing in Cloud Monitoring, and you have

not encountered any error messages. You need to troubleshoot this issue. What should you do?

- A. Confirm that your service has the monitoring.servicesViewer IAM role.
- B. Determine if your service has exceeded its quota for writes to the Cloud Monitoring API.
- C. Check if the Grafana service is installed on your GKE cluster.
- D. Verify that your PodMonitoring configuration references a valid port.

Answer: D

Explanation:
Comprehensive and Detailed Explanation:
When using Managed Service for Prometheus, metrics may not appear in Cloud Monitoring if PodMonitoring is misconfigured. The most likely issue is that the PodMonitoring configuration does not reference a valid port.
PodMonitoring is required to collect metrics from workloads in GKE.
If the port is incorrect or missing, metrics won't be scraped.
#Why not other options?
A (Check quota limits)## If quotas were exceeded, you'd see explicit errors, but the question states no errors were encountered.
B (Grafana installation check)## Grafana is not required for Prometheus metric collection.
C (monitoring.servicesViewer IAM role issue)## This role allows viewing metrics, but does not affect metric collection.
#Official Reference:
Managed Service for Prometheus - PodMonitoring
GKE Monitoring Troubleshooting

NEW QUESTION # 40
You have a set of applications running on a Google Kubernetes Engine (GKE) cluster, and you are using Stackdriver Kubernetes Engine Monitoring. You are bringing a new containerized application required by your company into production. This application is written by a third party and cannot be modified or reconfigured. The application writes its log information to /var/log/app_messages.log, and you want to send these log entries to Stackdriver Logging. What should you do?

- A. Use the default Stackdriver Kubernetes Engine Monitoring agent configuration.
- B. Install Kubernetes on Google Compute Engine (GCE> and redeploy your applications. Then customize the built-in Stackdriver Logging configuration to tail the log file in the application's pods and write to Stackdriver Logging.
- C. Deploy a Fluentd daemonset to GKE. Then create a customized input and output configuration to tail the log file in the application's pods and write to Slackdriver Logging.
- D. Write a script to tail the log file within the pod and write entries to standard output. Run the script as a sidecar container with the application's pod. Configure a shared volume between the containers to allow the script to have read access to /var/log in the application container.

Answer: D

NEW QUESTION # 41
You support a multi-region web service running on Google Kubernetes Engine (GKE) behind a Global HTTP'S Cloud Load Balancer (CLB). For legacy reasons, user requests first go through a third-party Content Delivery Network (CDN). which then routes traffic to the CLB. You have already implemented an availability Service Level Indicator (SLI) at the CLB level. However, you want to increase coverage in case of a potential load balancer misconfiguration. CDN failure, or other global networking catastrophe. Where should you measure this new SLI?
Choose 2 answers

- A. A synthetic client that periodically sends simulated user requests
- B. Metrics exported from the application servers
- C. Your application servers' logs
- D. Instrumentation coded directly in the client
- E. GKE health checks for your application servers

Answer: A,E

NEW QUESTION # 42

You support a high-traffic web application and want to ensure that the home page loads in a timely manner. As a first step, you decide to implement a Service Level Indicator (SLI) to represent home page request latency with an acceptable page load time set to 100 ms. What is the Google-recommended way of calculating this SLI?

- A. Count the number of home page requests that load in under 100 ms, and then divide by the total number of home page requests.
- B. Buckelize Ihe request latencies into ranges, and then compute the percentile at 100 ms.
- C. Bucketize the request latencies into ranges, and then compute the median and 90th percentiles.
- D. Count the number of home page requests that load in under 100 ms. and then divide by the total number of all web application requests.

Answer: B

NEW QUESTION # 43

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