

# Professional-Cloud-DevOps-Engineer Study Guide: Google Cloud Certified - Professional Cloud DevOps Engineer Exam & Professional-Cloud-DevOps-Engineer Practice Test & Google Cloud Certified - Professional Cloud DevOps Engineer Exam Learning Materials

## GOOGLE CLOUD PROFESSIONAL CLOUD DEVOPS ENGINEER EXAM

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To qualify for the Google Professional-Cloud-DevOps-Engineer Certification Exam, candidates must have at least three years of

experience working in a DevOps engineering role and a minimum of one year of experience working with Google Cloud. Candidates are also expected to have a solid understanding of software development principles and practices, as well as experience with scripting languages such as Python and Bash.

Google Professional-Cloud-DevOps-Engineer exam is a certification that validates the skills and knowledge of a DevOps engineer in the Google Cloud Platform (GCP) environment. Google Cloud Certified - Professional Cloud DevOps Engineer Exam certification is designed for professionals who have experience in software development, operations, and infrastructure management. Professional-Cloud-DevOps-Engineer Exam aims to test a candidate's expertise in designing, building, and managing efficient and scalable DevOps workflows in the GCP environment.

The Professional-Cloud-DevOps-Engineer certification exam assesses a candidate's proficiency in various areas, including designing and implementing continuous delivery pipelines, configuring infrastructure automation, monitoring, and logging systems, and managing and deploying services using container technology. Professional-Cloud-DevOps-Engineer exam is intended for professionals who have experience in DevOps practices, software development, and system administration.

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## **Google Cloud Certified - Professional Cloud DevOps Engineer Exam Sample Questions (Q116-Q121):**

### **NEW QUESTION # 116**

Your team uses Cloud Build for all CI/CD pipelines. You want to use the kubectl builder for Cloud Build to deploy new images to Google Kubernetes Engine (GKE). You need to authenticate to GKE while minimizing development effort. What should you do?

- A. Assign the Container Developer role to the Cloud Build service account.
- B. Create a new service account with the Container Developer role and use it to run Cloud Build.
- C. Create a separate step in Cloud Build to retrieve service account credentials and pass these to kubectl.
- D. Specify the Container Developer role for Cloud Build in the cloudbuild.yaml file.

### **Answer: A**

Explanation:

<https://cloud.google.com/build/docs/deploying-builds/deploy-gke>

<https://cloud.google.com/build/docs/securing-builds/configure-user-specified-service-accounts>

### **NEW QUESTION # 117**

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 Kubernetes 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 (IaC) and application code?

- A. Cloud Infrastructure (Terraform) repository is shared: different branches are different environmentsGKE Infrastructure (Anthos Config Management Kustomize manifests) repository is shared: different overlay 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) repository is shared: different overlay directories 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) repositories are separated: different branches 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 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

**Answer: C**

#### NEW QUESTION # 118

You manage an application that is writing logs to Stackdriver Logging. You need to give some team members the ability to export logs. What should you do?

- A. Configure Access Context Manager to allow only these members to export logs.
- B. Grant the team members the IAM role of logging.configWriter on Cloud IAM.
- C. Create and grant a custom IAM role with the permissions logging.sinks.list and logging.sink.get.
- D. Create an Organizational Policy in Cloud IAM to allow only these members to create log exports.

**Answer: B**

Explanation:

Explanation/Reference: <https://cloud.google.com/logging/docs/access-control>

#### NEW QUESTION # 119

Your company is developing applications that are deployed on Google Kubernetes Engine (GKE) Each team manages a different application You need to create the development and production environments for each team while you minimize costs Different teams should not be able to access other teams environments You want to follow Google-recommended practices What should you do?

- A. Create one Google Cloud project per team In each project create a cluster with a Kubernetes namespace for development and one for production Grant the teams Identity and Access Management (IAM) access to their respective clusters.
- B. Create a development and a production GKE cluster in separate projects In each cluster create a Kubernetes namespace per team and then configure Kubernetes role-based access control (RBAC) so that each team can only access its own namespace
- C. Create one Google Cloud project per team In each project create a cluster for development and one for production Grant the teams Identity and Access Management (IAM) access to their respective clusters
- D. Create a development and a production GKE cluster in separate projects In each cluster create a Kubernetes namespace per team and then configure Identity-Aware Proxy so that each team can only access its own namespace

**Answer: B**

Explanation:

Explanation

The best option for creating the development and production environments for each team while minimizing costs and ensuring isolation is to create a development and a production GKE cluster in separate projects, in each cluster create a Kubernetes namespace per team, and then configure Kubernetes role-based access control (RBAC) so that each team can only access its own namespace. This option allows you to use fewer clusters and projects than creating one project or cluster per team, which reduces costs and complexity. It also allows you to isolate each team's environment by using namespaces and RBAC, which prevents teams from accessing other teams' environments.

#### NEW QUESTION # 120

You are developing the deployment and testing strategies for your CI/CD pipeline in Google Cloud You must be able to

\* Reduce the complexity of release deployments and minimize the duration of deployment rollbacks

\* Test real production traffic with a gradual increase in the number of affected users You want to select a deployment and testing strategy that meets your requirements What should you do?

- A. Rolling update deployment and A/B testing
- B. Rolling update deployment and shadow testing
- C. Recreate deployment and canary testing

- D. Blue/green deployment and canary testing

**Answer: D**

Explanation:

Explanation

The best option for selecting a deployment and testing strategy that meets your requirements is to use blue/green deployment and canary testing. A blue/green deployment is a deployment strategy that involves creating two identical environments, one running the current version of the application (blue) and one running the new version of the application (green). The traffic is switched from blue to green after testing the new version, and if any issues are discovered, the traffic can be switched back to blue instantly. This way, you can reduce the complexity of release deployments and minimize the duration of deployment rollbacks. A canary testing is a testing strategy that involves releasing a new version of an application to a subset of users or servers and monitoring its performance and reliability. This way, you can test real production traffic with a gradual increase in the number of affected users.

## NEW QUESTION # 121

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