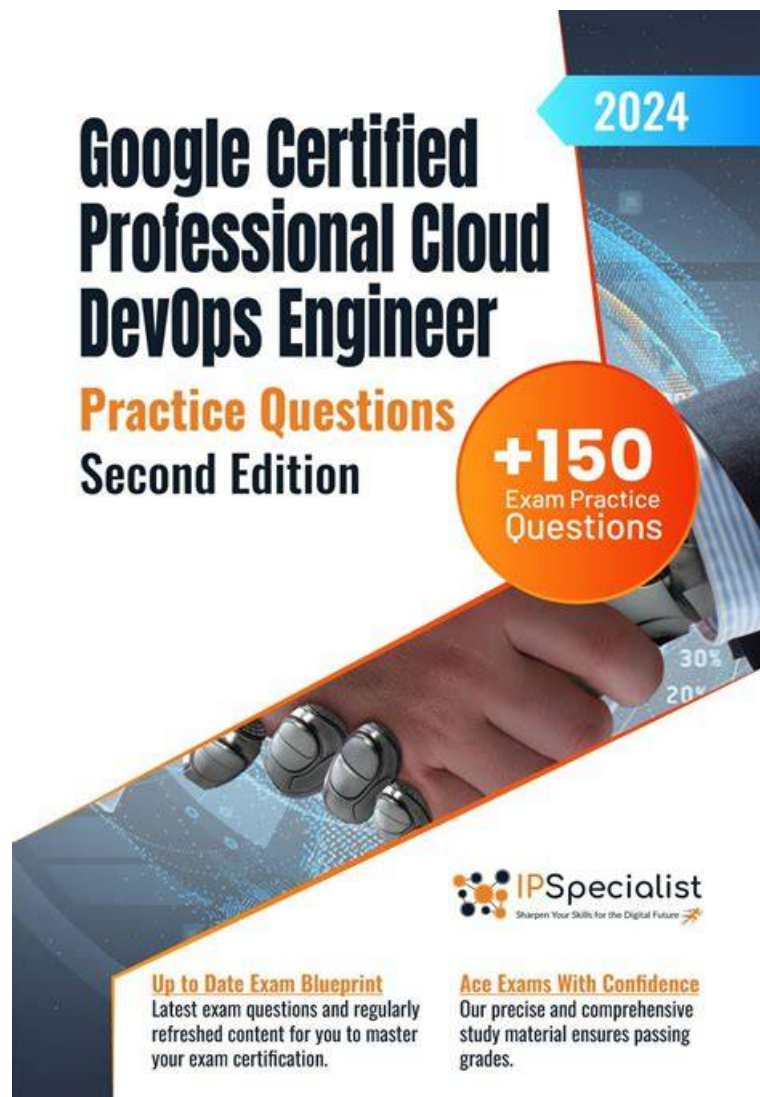


# Web-Based Google Professional-Cloud-DevOps-Engineer Practice Exam - Compatible with all OS



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To develop a new study system needs to spend a lot of manpower and financial resources, first of all, essential, of course, is the most intuitive skill Professional-Cloud-DevOps-Engineer learning materials, to some extent this greatly affected the overall quality of the learning materials. Our Professional-Cloud-DevOps-Engineer study training materials do our best to find all the valuable reference books, then, the product we hired experts will carefully analyzing and summarizing the related Professional-Cloud-DevOps-Engineer Exam Materials, eventually form a complete set of the review system. And you will be surprised by the excellent quality of our Professional-Cloud-DevOps-Engineer learning guide.

## Google Professional-Cloud-DevOps-Engineer Exam Syllabus Topics:

| Section | Weight | Objectives |
|---------|--------|------------|
|         |        |            |

|                                                    |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|----------------------------------------------------|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CI/CD Pipeline Development                         | 26% | <ul style="list-style-type: none"> <li>- Containerization and Docker <ul style="list-style-type: none"> <li>• 1. Managing container registries</li> <li>• 2. Implementing container security best practices</li> <li>• 3. Creating optimized Docker images (multi-stage builds)</li> </ul> </li> <li>- Designing and implementing CI/CD pipelines <ul style="list-style-type: none"> <li>• 1. Configuring build caching strategies</li> <li>• 2. Configuring build triggers and webhooks</li> <li>• 3. Implementing build automation scripts</li> <li>• 4. Setting up artifact management with Artifact Registry</li> <li>• 5. Designing pipeline architecture (Cloud Build, Jenkins, GitLab CI, etc.)</li> </ul> </li> <li>- CI/CD best practices <ul style="list-style-type: none"> <li>• 1. Implementing shift-left testing</li> <li>• 2. Configuring quality gates and code coverage</li> <li>• 3. Managing secrets in CI/CD pipelines</li> </ul> </li> </ul> |
| Cloud Infrastructure Automation                    | 24% | <ul style="list-style-type: none"> <li>- Deployment strategies <ul style="list-style-type: none"> <li>• 1. Blue-green deployments</li> <li>• 2. Rolling updates with Kubernetes</li> <li>• 3. Feature flags with Firebase Remote Config or LaunchDarkly</li> <li>• 4. Canary releases and progressive rollouts</li> </ul> </li> <li>- Infrastructure as Code (IaC) <ul style="list-style-type: none"> <li>• 1. Implementing with Terraform</li> <li>• 2. Managing infrastructure modules and state</li> <li>• 3. Implementing immutable infrastructure patterns</li> </ul> </li> <li>- Configuration management <ul style="list-style-type: none"> <li>• 1. Using Ansible for configuration management</li> <li>• 2. Implementing configuration drift detection</li> <li>• 3. Managing secrets with Secret Manager</li> </ul> </li> </ul>                                                                                                                         |
| Reliability and Site Reliability Engineering (SRE) | 24% | <ul style="list-style-type: none"> <li>- Incident management <ul style="list-style-type: none"> <li>• 1. Configuring automated incident response</li> <li>• 2. Implementing on-call procedures</li> <li>• 3. Post-incident reviews and blameless postmortems</li> </ul> </li> <li>- SLOs, SLIs, and SLAs <ul style="list-style-type: none"> <li>• 1. Error budget policies and management</li> <li>• 2. Setting appropriate Service Level Agreements</li> <li>• 3. Defining and implementing Service Level Objectives</li> <li>• 4. Creating and interpreting Service Level Indicators</li> </ul> </li> <li>- Monitoring and observability <ul style="list-style-type: none"> <li>• 1. Configuring Cloud Monitoring and Logging</li> <li>• 2. Implementing distributed tracing with Cloud Trace</li> <li>• 3. Setting up alerting policies and incident management</li> <li>• 4. Creating dashboards for service health visibility</li> </ul> </li> </ul>         |

|                                    |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------------------------------------|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Monitoring, Logging, and Debugging | 12% | <ul style="list-style-type: none"> <li>- Cloud Operations Suite <ul style="list-style-type: none"> <li>• 1. Configuring Cloud Monitoring metrics</li> <li>• 2. Implementing Cloud Logging with log sinks</li> <li>• 3. Creating uptime checks and alerts</li> </ul> </li> <li>- Log management <ul style="list-style-type: none"> <li>• 1. Configuring log retention policies</li> <li>• 2. Implementing log-based metrics</li> <li>• 3. Structuring logs for efficient querying</li> </ul> </li> <li>- Debugging and troubleshooting <ul style="list-style-type: none"> <li>• 1. Analyzing performance profiles with Cloud Profiler</li> <li>• 2. Debugging with Cloud Trace distributed tracing</li> <li>• 3. Using Cloud Debugger and Error Reporting</li> </ul> </li> </ul>                                           |
| Microservices Architecture         | 14% | <ul style="list-style-type: none"> <li>- API management <ul style="list-style-type: none"> <li>• 1. Exposing APIs with Cloud Endpoints / Apigee</li> <li>• 2. Implementing API versioning strategies</li> </ul> </li> <li>- Container orchestration with GKE <ul style="list-style-type: none"> <li>• 1. Configuring node pools and auto-scaling</li> <li>• 2. Designing Kubernetes cluster architectures</li> <li>• 3. Managing pod lifecycle and resource quotas</li> <li>• 4. Implementing workload deployment and scaling</li> </ul> </li> <li>- Service mesh and networking <ul style="list-style-type: none"> <li>• 1. Configuring traffic management and load balancing</li> <li>• 2. Implementing service-to-service authentication</li> <li>• 3. Implementing Anthos Service Mesh / Istio</li> </ul> </li> </ul> |

>> Sample Professional-Cloud-DevOps-Engineer Questions <<

## Pass Guaranteed 2026 Professional-Cloud-DevOps-Engineer: Google Cloud Certified - Professional Cloud DevOps Engineer Exam –Authoritative Sample Questions

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## Google Cloud Certified - Professional Cloud DevOps Engineer Exam Sample Questions (Q49-Q54):

### NEW QUESTION # 49

You are the Site Reliability Engineer responsible for managing your company's data services and products.

You regularly navigate operational challenges, such as unpredictable data volume and high cost, with your company's data ingestion processes. You recently learned that a new data ingestion product will be developed in Google Cloud. You need to collaborate with the product development team to provide operational input on the new product. What should you do?

- A. Review the design of the product with the product development team to provide feedback early in the design phase.
- B. Deploy the prototype product in a test environment, run a load test, and share the results with the product development

team.

- C. When the initial product version passes the quality assurance phase and compliance assessments, deploy the product to a staging environment. Share error logs and performance metrics with the product development team.
- D. When the new product is used by at least one internal customer in production, share error logs and monitoring metrics with the product development team.

**Answer: A**

Explanation:

The correct answer is D. Review the design of the product with the product development team to provide feedback early in the design phase.

According to the Google Cloud DevOps best practices, a Site Reliability Engineer (SRE) should collaborate with the product development team from the beginning of the product lifecycle, not just after the product is deployed or tested. This way, the SRE can provide operational input on the product design, such as scalability, reliability, security, and cost efficiency. The SRE can also help define service level objectives (SLOs) and service level indicators (SLIs) for the product, as well as monitoring and alerting strategies. By collaborating early and often, the SRE and the product development team can ensure that the product meets the operational requirements and expectations of the customers.

#### NEW QUESTION # 50

You support a service with a well-defined Service Level Objective (SLO). Over the previous 6 months, your service has consistently met its SLO and customer satisfaction has been consistently high. Most of your service's operations tasks are automated and few repetitive tasks occur frequently. You want to optimize the balance between reliability and deployment velocity while following site reliability engineering best practices. What should you do? (Choose two.)

- A. Get the product team to prioritize reliability work over new features.
- **B. Increase the service's deployment velocity and/or risk.**
- C. Change the implementation of your Service Level Indicators (SLIs) to increase coverage.
- D. Make the service's SLO more strict.
- **E. Shift engineering time to other services that need more reliability.**

**Answer: B,E**

#### NEW QUESTION # 51

You are building the CI/CD pipeline for an application deployed to Google Kubernetes Engine (GKE). The application is deployed by using a Kubernetes Deployment, Service, and Ingress. The application team asked you to deploy the application by using the blue/green deployment methodology. You need to implement the rollback actions. What should you do?

- **A. Update the Kubernetes Service to point to the previous Kubernetes Deployment.**
- B. Delete the new container image, and delete the running Pods.
- C. Run the `kubectl rollout undo` command.
- D. Scale the new Kubernetes Deployment to zero.

**Answer: A**

Explanation:

The best option for implementing the rollback actions is to update the Kubernetes Service to point to the previous Kubernetes Deployment. A Kubernetes Service is a resource that defines how to access a set of Pods. A Kubernetes Deployment is a resource that manages the creation and update of Pods. By using the blue/green deployment methodology, you can create two Deployments, one for the current version (blue) and one for the new version (green), and use a Service to switch traffic between them. If you need to rollback, you can update the Service to point to the previous Deployment (blue) and stop sending traffic to the new Deployment (green).

#### NEW QUESTION # 52

You are creating and assigning action items in a postmodern for an outage. The outage is over, but you need to address the root causes. You want to ensure that your team handles the action items quickly and efficiently. How should you assign owners and collaborators to action items?

- **A. Assign one owner for each action item and any necessary collaborators.**

- B. Assign multiple owners for each item to guarantee that the team addresses items quickly
- C. Assign collaborators but no individual owners to the items to keep the postmortem blameless.
- D. Assign the team lead as the owner for all action items because they are in charge of the SRE team.

**Answer: A**

Explanation:

<https://devops.com/when-it-disaster-strikes-part-3-conducting-a-blameless-post-mortem/>

### NEW QUESTION # 53

You have a CI/CD pipeline that uses Cloud Build to build new Docker images and push them to Docker Hub. You use Git for code versioning. After making a change in the Cloud Build YAML configuration, you notice that no new artifacts are being built by the pipeline. You need to resolve the issue following Site Reliability Engineering practices. What should you do?

- A. Change the CI pipeline to push the artifacts to Container Registry instead of Docker Hub.
- **B. Run a Git compare between the previous and current Cloud Build Configuration files to find and fix the bug.**
- C. Disable the CI pipeline and revert to manually building and pushing the artifacts.
- D. Upload the configuration YAML file to Cloud Storage and use Error Reporting to identify and fix the issue.

**Answer: B**

Explanation:

"After making a change in the Cloud Build YAML configuration, you notice that no new artifacts are being built by the pipeline"- means something wrong on the recent change not with the image registry.

### NEW QUESTION # 54

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