



# Google

## Exam Questions Professional-Cloud-DevOps-Engineer

Google Cloud Certified - Professional Cloud DevOps Engineer Exam

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#### NEW QUESTION 1

You use Cloud Build to build your application. You want to reduce the build time while minimizing cost and development effort. What should you do?

- A. Use Cloud Storage to cache intermediate artifacts.
- B. Run multiple Jenkins agents to parallelize the build.
- C. Use multiple smaller build steps to minimize execution time.
- D. Use larger Cloud Build virtual machines (VMs) by using the machine-type option.

**Answer: C**

#### Explanation:

<https://cloud.google.com/storage/docs/best-practices>

[https://cloud.google.com/build/docs/speeding-up-builds#caching\\_directories\\_with\\_google\\_cloud\\_storage](https://cloud.google.com/build/docs/speeding-up-builds#caching_directories_with_google_cloud_storage) Caching directories with Google Cloud Storage To increase the speed of a build, reuse the results from a

previous build. You can copy the results of a previous build to a Google Cloud Storage bucket, use the results for faster calculation, and then copy the new results back to the bucket. Use this method when your build takes a long time and produces a small number of files that does not take time to copy to and from Google Cloud Storage.

upvoted 2 times

#### NEW QUESTION 2

You use Spinnaker to deploy your application and have created a canary deployment stage in the pipeline. Your application has an in-memory cache that loads objects at start time. You want to automate the comparison of the canary version against the production version. How should you configure the canary analysis?

- A. Compare the canary with a new deployment of the current production version.
- B. Compare the canary with a new deployment of the previous production version.
- C. Compare the canary with the existing deployment of the current production version.
- D. Compare the canary with the average performance of a sliding window of previous production versions.

**Answer: A**

#### Explanation:

<https://cloud.google.com/architecture/automated-canary-analysis-kubernetes-engine-spinnaker> <https://spinnaker.io/guides/user/canary/best-practices/#compare-canary-against-baseline-not-against-production>

#### NEW QUESTION 3

You encountered a major service outage that affected all users of the service for multiple hours. After several hours of incident management, the service returned to normal, and user access was restored. You need to provide an incident summary to relevant stakeholders following the Site Reliability Engineering recommended practices. What should you do first?

- A. Call individual stakeholders to explain what happened.
- B. Develop a post-mortem to be distributed to stakeholders.
- C. Send the Incident State Document to all the stakeholders.
- D. Require the engineer responsible to write an apology email to all stakeholders.

**Answer: B**

#### NEW QUESTION 4

You support a popular mobile game application deployed on Google Kubernetes Engine (GKE) across several Google Cloud regions. Each region has multiple Kubernetes clusters. You receive a report that none of the users in a specific region can connect to the application. You want to resolve the incident while following Site Reliability Engineering practices. What should you do first?

- A. Reroute the user traffic from the affected region to other regions that don't report issues.
- B. Use Stackdriver Monitoring to check for a spike in CPU or memory usage for the affected region.
- C. Add an extra node pool that consists of high memory and high CPU machine type instances to the cluster.
- D. Use Stackdriver Logging to filter on the clusters in the affected region, and inspect error messages in the logs.

**Answer: A**

#### Explanation:

Google always aims to first stop the impact of an incident, and then find the root cause (unless the root cause just happens to be identified early on).

#### NEW QUESTION 5

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

**Answer: BC**

#### Explanation:

(<https://sre.google/workbook/implementing-slos/#slo-decision-matrix>)

#### NEW QUESTION 6

You are running an application in a virtual machine (VM) using a custom Debian image. The image has the Stackdriver Logging agent installed. The VM has the cloud-platform scope. The application is logging information via syslog. You want to use Stackdriver Logging in the Google Cloud Platform Console to visualize the logs. You notice that syslog is not showing up in the "All logs" dropdown list of the Logs Viewer. What is the first thing you should do?

- A. Look for the agent's test log entry in the Logs Viewer.
- B. Install the most recent version of the Stackdriver agent.
- C. Verify the VM service account access scope includes the monitoring.write scope.
- D. SSH to the VM and execute the following commands on your VM: `ps ax | grep fluentd`

**Answer: D**

#### Explanation:

[https://cloud.google.com/compute/docs/access/service-accounts#associating\\_a\\_service\\_account\\_to\\_an\\_instance](https://cloud.google.com/compute/docs/access/service-accounts#associating_a_service_account_to_an_instance)

#### NEW QUESTION 7

Your application services run in Google Kubernetes Engine (GKE). You want to make sure that only images from your centrally-managed Google Container Registry (GCR) image registry in the altostrat-images project can be deployed to the cluster while minimizing development time. What should you do?

- A. Create a custom builder for Cloud Build that will only push images to gcr.io/altostrat-images.
- B. Use a Binary Authorization policy that includes the whitelist name pattern gcr.io/altostrat-images/.
- C. Add logic to the deployment pipeline to check that all manifests contain only images from gcr.io/altostrat-images.
- D. Add a tag to each image in gcr.io/altostrat-images and check that this tag is present when the image is deployed.

**Answer: B**

#### NEW QUESTION 8

You support a stateless web-based API that is deployed on a single Compute Engine instance in the europe-west2-a zone. The Service Level Indicator (SLI) for service availability is below the specified Service Level Objective (SLO). A postmortem has revealed that requests to the API regularly time out. The time outs are due to the API having a high number of requests and running out memory. You want to improve service availability. What should you do?

- A. Change the specified SLO to match the measured SLI.
- B. Move the service to higher-specification compute instances with more memory.
- C. Set up additional service instances in other zones and load balance the traffic between all instances.
- D. Set up additional service instances in other zones and use them as a failover in case the primary instance is unavailable.

**Answer: C**

#### NEW QUESTION 9

Your product is currently deployed in three Google Cloud Platform (GCP) zones with your users divided between the zones. You can fail over from one zone to another, but it causes a 10-minute service disruption for the affected users. You typically experience a database failure once per quarter and can detect it within five minutes. You are cataloging the reliability risks of a new real-time chat feature for your product. You catalog the following information for each risk:

- Mean Time to Detect (MTTD) in minutes
- Mean Time to Repair (MTTR) in minutes
- Mean Time Between Failure (MTBF) in days
- User Impact Percentage

The chat feature requires a new database system that takes twice as long to successfully fail over between zones. You want to account for the risk of the new database failing in one zone. What would be the values for the risk of database failover with the new system?

- A. MTTD: 5MTTR: 10MTBF: 90Impact: 33%
- B. MTTD:5 MTTR: 20MTBF: 90Impact: 33%
- C. MTTD:5 MTTR: 10MTBF: 90Impact 50%
- D. MTTD:5 MTTR: 20MTBF: 90Impact: 50%

**Answer: B**

#### Explanation:

<https://www.atlassian.com/incident-management/kpis/common-metrics> <https://linkedin.github.io/school-of-sre/>

#### NEW QUESTION 10

You are running an experiment to see whether your users like a new feature of a web application. Shortly after deploying the feature as a canary release, you receive a spike in the number of 500 errors sent to users, and your monitoring reports show increased latency. You want to quickly minimize the negative impact on users.

What should you do first?

- A. Roll back the experimental canary release.
- B. Start monitoring latency, traffic, errors, and saturation.
- C. Record data for the postmortem document of the incident.
- D. Trace the origin of 500 errors and the root cause of increased latency.

**Answer: A**

#### NEW QUESTION 10

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

**Answer:** C

**Explanation:**

<https://cloud.google.com/monitoring/access-control>

#### NEW QUESTION 14

Your application images are built and pushed to Google Container Registry (GCR). You want to build an automated pipeline that deploys the application when the image is updated while minimizing the development effort. What should you do?

- A. Use Cloud Build to trigger a Spinnaker pipeline.
- B. Use Cloud Pub/Sub to trigger a Spinnaker pipeline.
- C. Use a custom builder in Cloud Build to trigger a Jenkins pipeline.
- D. Use Cloud Pub/Sub to trigger a custom deployment service running in Google Kubernetes Engine(GKE).

**Answer:** B

**Explanation:**

<https://cloud.google.com/architecture/continuous-delivery-toolchain-spinnaker-cloud> <https://spinnaker.io/guides/user/pipeline/triggers/pubsub/>

#### NEW QUESTION 18

Your team is designing a new application for deployment both inside and outside Google Cloud Platform (GCP). You need to collect detailed metrics such as system resource utilization. You want to use centralized GCP services while minimizing the amount of work required to set up this collection system. What should you do?

- A. Import the Stackdriver Profiler package, and configure it to relay function timing data to Stackdriver for further analysis.
- B. Import the Stackdriver Debugger package, and configure the application to emit debug messages with timing information.
- C. Instrument the code using a timing library, and publish the metrics via a health check endpoint that is scraped by Stackdriver.
- D. Install an Application Performance Monitoring (APM) tool in both locations, and configure an export to a central data storage location for analysis.

**Answer:** A

#### NEW QUESTION 23

Your team of Infrastructure DevOps Engineers is growing, and you are starting to use Terraform to manage infrastructure. You need a way to implement code versioning and to share code with other team members. What should you do?

- A. Store the Terraform code in a version-control syste
- B. Establish procedures for pushing new versions and merging with the master.
- C. Store the Terraform code in a network shared folder with child folders for each version releas
- D. Ensure that everyone works on different files.
- E. Store the Terraform code in a Cloud Storage bucket using object versionin
- F. Give access to the bucket to every team member so they can download the files.
- G. Store the Terraform code in a shared Google Drive folder so it syncs automatically to every team member's compute
- H. Organize files with a naming convention that identifies each new version.

**Answer:** A

**Explanation:**

<https://www.terraform.io/docs/cloud/guides/recommended-practices/part3.3.html>

#### NEW QUESTION 27

You support the backend of a mobile phone game that runs on a Google Kubernetes Engine (GKE) cluster. The application is serving HTTP requests from users. You need to implement a solution that will reduce the network cost. What should you do?

- A. Configure the VPC as a Shared VPC Host project.
- B. Configure your network services on the Standard Tier.
- C. Configure your Kubernetes duster as a Private Cluster.
- D. Configure a Google Cloud HTTP Load Balancer as Ingress.

**Answer:** D

**Explanation:**

Costs associated with a load balancer are charged to the project containing the load balancer components. Because of these benefits, container-native load balancing is the recommended solution for load balancing through Ingress. When NEGs are used with GKE Ingress, the Ingress controller facilitates the creation of all aspects of the L7 load balancer. This includes creating the virtual IP address, forwarding rules, health checks, firewall rules, and more.

<https://cloud.google.com/architecture/best-practices-for-running-cost-effective-kubernetes-applications-on-gke>

#### NEW QUESTION 29

Your application artifacts are being built and deployed via a CI/CD pipeline. You want the CI/CD pipeline to securely access application secrets. You also want to

more easily rotate secrets in case of a security breach. What should you do?

- A. Prompt developers for secrets at build tim
- B. Instruct developers to not store secrets at rest.
- C. Store secrets in a separate configuration file on Gi
- D. Provide select developers with access to the configuration file.
- E. Store secrets in Cloud Storage encrypted with a key from Cloud KM
- F. Provide the CI/CD pipeline with access to Cloud KMS via IAM.
- G. Encrypt the secrets and store them in the source code repositor
- H. Store a decryption key in a separate repository and grant your pipeline access to it

**Answer:** C

#### **NEW QUESTION 30**

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