



# 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 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 3

Your application runs on Google Cloud Platform (GCP). You need to implement Jenkins for deploying application releases to GCP. You want to streamline the release process, lower operational toil, and keep user data secure. What should you do?

- A. Implement Jenkins on local workstations.
- B. Implement Jenkins on Kubernetes on-premises
- C. Implement Jenkins on Google Cloud Functions.
- D. Implement Jenkins on Compute Engine virtual machines.

**Answer: D**

#### Explanation:

Your application runs on Google Cloud Platform (GCP). You need to implement Jenkins for deploying application releases to GCP. You want to streamline the release process, lower operational toil, and keep user data secure. What should you do?

<https://plugins.jenkins.io/google-compute-engine/>

#### NEW QUESTION 4

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 a Compute Engine VM.
- B. Install the Stackdriver Error Reporting library for Python, and then run your code on Google Kubernetes Engine.
- C. Install the Stackdriver Error Reporting library for Python, and then run your code on App Engine flexible environment.
- D. 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.

**Answer: D**

#### 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 5

You are using Stackdriver to monitor applications hosted on Google Cloud Platform (GCP). You recently deployed a new application, but its logs are not appearing on the Stackdriver dashboard.

You need to troubleshoot the issue. What should you do?

- A. Confirm that the Stackdriver agent has been installed in the hosting virtual machine.
- B. Confirm that your account has the proper permissions to use the Stackdriver dashboard.
- C. Confirm that port 25 has been opened in the firewall to allow messages through to Stackdriver.
- D. Confirm that the application is using the required client library and the service account key has proper permissions.

**Answer: A**

#### Explanation:

<https://cloud.google.com/monitoring/agent/monitoring/troubleshooting#checklist>

#### NEW QUESTION 6

You are working with a government agency that requires you to archive application logs for seven years. You need to configure Stackdriver to export and store the logs while minimizing costs of storage. What should you do?

- A. Create a Cloud Storage bucket and develop your application to send logs directly to the bucket.
- B. Develop an App Engine application that pulls the logs from Stackdriver and saves them in BigQuery.
- C. Create an export in Stackdriver and configure Cloud Pub/Sub to store logs in permanent storage for seven years.
- D. Create a sink in Stackdriver, name it, create a bucket on Cloud Storage for storing archived logs, and then select the bucket as the log export destination.

**Answer:** D

#### Explanation:

<https://cloud.google.com/logging/docs/routing/overview>

#### NEW QUESTION 7

You are running an application on Compute Engine and collecting logs through Stackdriver. You discover that some personally identifiable information (PII) is leaking into certain log entry fields. You want to prevent these fields from being written in new log entries as quickly as possible. What should you do?

- A. Use the filter-record-transformer Fluentd filter plugin to remove the fields from the log entries in flight.
- B. Use the fluent-plugin-record-reformer Fluentd output plugin to remove the fields from the log entries in flight.
- C. Wait for the application developers to patch the application, and then verify that the log entries are no longer exposing PII.
- D. Stage log entries to Cloud Storage, and then trigger a Cloud Function to remove the fields and write the entries to Stackdriver via the Stackdriver Logging API.

**Answer:** A

#### NEW QUESTION 8

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 9

Your company experiences bugs, outages, and slowness in its production systems. Developers use the production environment for new feature development and bug fixes. Configuration and experiments are done in the production environment, causing outages for users. Testers use the production environment for load testing, which often slows the production systems. You need to redesign the environment to reduce the number of bugs and outages in production and to enable testers to load test new features. What should you do?

- A. Create an automated testing script in production to detect failures as soon as they occur.
- B. Create a development environment with smaller server capacity and give access only to developers and testers.
- C. Secure the production environment to ensure that developers can't change it and set up one controlled update per year.
- D. Create a development environment for writing code and a test environment for configurations, experiments, and load testing.

**Answer:** D

#### NEW QUESTION 10

Your company follows Site Reliability Engineering practices. You are the person in charge of Communications for a large, ongoing incident affecting your customer-facing applications. There is still no estimated time for a resolution of the outage. You are receiving emails from internal stakeholders who want updates on the outage, as well as emails from customers who want to know what is happening. You want to efficiently provide updates to everyone affected by the outage. What should you do?

- A. Focus on responding to internal stakeholders at least every 30 minute
- B. Commit to "next update" times.
- C. Provide periodic updates to all stakeholders in a timely manne
- D. Commit to a "next update" time in all communications.
- E. Delegate the responding to internal stakeholder emails to another member of the Incident Response Tea
- F. Focus on providing responses directly to customers.
- G. Provide all internal stakeholder emails to the Incident Commander, and allow them to manage internal communication
- H. Focus on providing responses directly to customers.

**Answer:** B

#### Explanation:

When disaster strikes, the person who declares the incident typically steps into the IC role and directs the high-level state of the incident. The IC concentrates on the 3Cs and does the following: Commands and coordinates the incident response, delegating roles as needed. By default, the IC assumes all roles that have not been delegated yet. Communicates effectively. Stays in control of the incident response. Works with other responders to resolve the incident. <https://sre.google/workbook/incident-response/>

#### NEW QUESTION 10

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 14

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 16

Your organization wants to implement Site Reliability Engineering (SRE) culture and principles. Recently, a service that you support had a limited outage. A manager on another team asks you to provide a formal explanation of what happened so they can action remediations. What should you do?

- A. Develop a postmortem that includes the root causes, resolution, lessons learned, and a prioritized list of action item
- B. Share it with the manager only.
- C. Develop a postmortem that includes the root causes, resolution, lessons learned, and a prioritized list of action item
- D. Share it on the engineering organization's document portal.
- E. Develop a postmortem that includes the root causes, resolution, lessons learned, the list of people responsible, and a list of action items for each perso
- F. Share it with the manager only.
- G. Develop a postmortem that includes the root causes, resolution, lessons learned, the list of people responsible, and a list of action items for each perso
- H. Share it on the engineering organization's document portal.

**Answer:** B

#### NEW QUESTION 18

You use Cloud Build to build and deploy your application. You want to securely incorporate database credentials and other application secrets into the build pipeline. You also want to minimize the development effort. What should you do?

- A. Create a Cloud Storage bucket and use the built-in encryption at res
- B. Store the secrets in the bucket and grant Cloud Build access to the bucket.
- C. Encrypt the secrets and store them in the application repositor
- D. Store a decryption key in a separate repository and grant Cloud Build access to the repository.
- E. Use client-side encryption to encrypt the secrets and store them in a Cloud Storage bucke
- F. Store a decryption key in the bucket and grant Cloud Build access to the bucket.
- G. Use Cloud Key Management Service (Cloud KMS) to encrypt the secrets and include them in your Cloud Build deployment configuratio
- H. Grant Cloud Build access to the KeyRing.

**Answer:** D

#### Explanation:

<https://cloud.google.com/build/docs/securing-builds/use-encrypted-credentials>

#### NEW QUESTION 22

Your team has recently deployed an NGINX-based application into Google Kubernetes Engine (GKE) and has exposed it to the public via an HTTP Google Cloud Load Balancer (GCLB) ingress. You want to scale the deployment of the application's frontend using an appropriate Service Level Indicator (SLI). What should you do?

- A. Configure the horizontal pod autoscaler to use the average response time from the Liveness and Readiness probes.
- B. Configure the vertical pod autoscaler in GKE and enable the cluster autoscaler to scale the cluster as pods expand.
- C. Install the Stackdriver custom metrics adapter and configure a horizontal pod autoscaler to use the number of requests provided by the GCLB.
- D. Expose the NGINX stats endpoint and configure the horizontal pod autoscaler to use the request metrics exposed by the NGINX deployment.

**Answer:** C

#### Explanation:

<https://cloud.google.com/kubernetes-engine/docs/tutorials/autoscaling-metrics>

#### 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 cluster 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 28**

You are running a real-time gaming application on Compute Engine that has a production and testing environment. Each environment has their own Virtual Private Cloud (VPC) network. The application frontend and backend servers are located on different subnets in the environment's VPC. You suspect there is a malicious process communicating intermittently in your production frontend servers. You want to ensure that network traffic is captured for analysis. What should you do?

- A. Enable VPC Flow Logs on the production VPC network frontend and backend subnets only with a sample volume scale of 0.5.
- B. Enable VPC Flow Logs on the production VPC network frontend and backend subnets only with a sample volume scale of 1.0.
- C. Enable VPC Flow Logs on the testing and production VPC network frontend and backend subnets with a volume scale of 0.5. Apply changes in testing before production.
- D. Enable VPC Flow Logs on the testing and production VPC network frontend and backend subnets with a volume scale of 1.0. Apply changes in testing before production.

**Answer: D**

**NEW QUESTION 32**

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

**Answer: C**

**NEW QUESTION 36**

You support a service that recently had an outage. The outage was caused by a new release that exhausted the service memory resources. You rolled back the release successfully to mitigate the impact on users. You are now in charge of the post-mortem for the outage. You want to follow Site Reliability Engineering practices when developing the post-mortem. What should you do?

- A. Focus on developing new features rather than avoiding the outages from recurring.
- B. Focus on identifying the contributing causes of the incident rather than the individual responsible for the cause.
- C. Plan individual meetings with all the engineers involved
- D. Determine who approved and pushed the new release to production.
- E. Use the Git history to find the related code commit
- F. Prevent the engineer who made that commit from working on production services.

**Answer: B**

**NEW QUESTION 41**

You are developing a strategy for monitoring your Google Cloud Platform (GCP) projects in production using Stackdriver Workspaces. One of the requirements is to be able to quickly identify and react to production environment issues without false alerts from development and staging projects. You want to ensure that you adhere to the principle of least privilege when providing relevant team members with access to Stackdriver Workspaces. What should you do?

- A. Grant relevant team members read access to all GCP production projects
- B. Create Stackdriver workspaces inside each project.
- C. Grant relevant team members the Project Viewer IAM role on all GCP production projects
- D. Create Stackdriver workspaces inside each project.
- E. Choose an existing GCP production project to host the monitoring workspace
- F. Attach the production projects to this workspace
- G. Grant relevant team members read access to the Stackdriver Workspace.
- H. Create a new GCP monitoring project, and create a Stackdriver Workspace inside it
- I. Attach the production projects to this workspace
- J. Grant relevant team members read access to the Stackdriver Workspace.

**Answer: D**

**Explanation:**

"A Project can host many Projects and appear in many Projects, but it can only be used as the scoping project once. We recommend that you create a new Project

for the purpose of having multiple Projects in the same scope."

#### NEW QUESTION 45

You support a web application that runs on App Engine and uses CloudSQL and Cloud Storage for data storage. After a short spike in website traffic, you notice a big increase in latency for all user requests, increase in CPU use, and the number of processes running the application. Initial troubleshooting reveals: After the initial spike in traffic, load levels returned to normal but users still experience high latency. Requests for content from the CloudSQL database and images from Cloud Storage show the same high latency.

No changes were made to the website around the time the latency increased. There is no increase in the number of errors to the users.

You expect another spike in website traffic in the coming days and want to make sure users don't experience latency. What should you do?

- A. Upgrade the GCS buckets to Multi-Regional.
- B. Enable high availability on the CloudSQL instances.
- C. Move the application from App Engine to Compute Engine.
- D. Modify the App Engine configuration to have additional idle instances.

**Answer:** D

#### Explanation:

Scaling App Engine scales the number of instances automatically in response to processing volume. This scaling factors in the `automatic_scaling` settings that are provided on a per-version basis in the configuration file. A service with basic scaling is configured by setting the maximum number of instances in the `max_instances` parameter of the `basic_scaling` setting. The number of live instances scales with the processing volume. You configure the number of instances of each version in that service's configuration file. The number of instances usually corresponds to the size of a dataset being held in memory or the desired throughput for offline work. You can adjust the number of instances of a manually-scaled version very quickly, without stopping instances that are currently running, using the Modules API `set_num_instances` function. <https://cloud.google.com/appengine/docs/standard/python/how-instances-are-managed>  
<https://cloud.google.com/appengine/docs/standard/python/config/appref>

`max_idle_instances` Optional. The maximum number of idle instances that App Engine should maintain for this version. Specify a value from 1 to 1000. If not specified, the default value is `automatic`, which means App Engine will manage the number of idle instances. Keep the following in mind: A high maximum reduces the number of idle instances more gradually when load levels return to normal after a spike. This helps your application maintain steady performance through fluctuations in request load, but also raises the number of idle instances (and consequent running costs) during such periods of heavy load.

#### NEW QUESTION 49

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