



**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

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. All PII entries begin with the text userinfo. You want to capture these log entries in a secure location for later review and prevent them from leaking to Stackdriver Logging. What should you do?

- A. Create a basic log filter matching userinfo, and then configure a log export in the Stackdriver console with Cloud Storage as a sink.
- B. Use a Fluentd filter plugin with the Stackdriver Agent to remove log entries containing userinfo, and then copy the entries to a Cloud Storage bucket.
- C. Create an advanced log filter matching userinfo, configure a log export in the Stackdriver console with Cloud Storage as a sink, and then configure a log exclusion with userinfo as a filter.
- D. Use a Fluentd filter plugin with the Stackdriver Agent to remove log entries containing userinfo, create an advanced log filter matching userinfo, and then configure a log export in the Stackdriver console with Cloud Storage as a sink.

**Answer:** B

#### Explanation:

<https://medium.com/google-cloud/fluentd-filter-plugin-for-google-cloud-data-loss-prevention-api-42bbb1308e7>

#### 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 high-traffic web application with a microservice architecture. The home page of the application displays multiple widgets containing content such as the current weather, stock prices, and news headlines. The main serving thread makes a call to a dedicated microservice for each widget and then lays out the homepage for the user. The microservices occasionally fail; when that happens, the serving thread serves the homepage with some missing content. Users of the application are unhappy if this degraded mode occurs too frequently, but they would rather have some content served instead of no content at all. You want to set a Service Level Objective (SLO) to ensure that the user experience does not degrade too much. What Service Level Indicator (SLI) should you use to measure this?

- A. A quality SLI: the ratio of non-degraded responses to total responses
- B. An availability SLI: the ratio of healthy microservices to the total number of microservices
- C. A freshness SLI: the proportion of widgets that have been updated within the last 10 minutes
- D. A latency SLI: the ratio of microservice calls that complete in under 100 ms to the total number of microservice calls

**Answer:** B

**Explanation:**

<https://cloud.google.com/blog/products/gcp/available-or-not-that-is-the-question-cre-life-lessons>

**NEW QUESTION 6**

You are ready to deploy a new feature of a web-based application to production. You want to use Google Kubernetes Engine (GKE) to perform a phased rollout to half of the web server pods.

What should you do?

- A. Use a partitioned rolling update.
- B. Use Node taints with NoExecute.
- C. Use a replica set in the deployment specification.
- D. Use a stateful set with parallel pod management policy.

**Answer:** A

**Explanation:**

<https://medium.com/velotio-perspectives/exploring-upgrade-strategies-for-stateful-sets-in-kubernetes-c02b8286f>

**NEW QUESTION 7**

You have a pool of application servers running on Compute Engine. You need to provide a secure solution that requires the least amount of configuration and allows developers to easily access application logs for troubleshooting. How would you implement the solution on GCP?

- A. • Deploy the Stackdriver logging agent to the application servers. • Give the developers the IAM Logs Viewer role to access Stackdriver and view logs.
- B. • Deploy the Stackdriver logging agent to the application servers. • Give the developers the IAM Logs Private Logs Viewer role to access Stackdriver and view logs.
- C. • Deploy the Stackdriver monitoring agent to the application servers. • Give the developers the IAM Monitoring Viewer role to access Stackdriver and view metrics.
- D. • Install the gsutil command line tool on your application servers. • Write a script using gsutil to upload your application log to a Cloud Storage bucket, and then schedule it to run via cron every 5 minutes. • Give the developers IAM Object Viewer access to view the logs in the specified bucket.

**Answer:** A

**Explanation:**

<https://cloud.google.com/logging/docs/audit#access-control>

**NEW QUESTION 8**

You need to run a business-critical workload on a fixed set of Compute Engine instances for several months. The workload is stable with the exact amount of resources allocated to it. You want to lower the costs for this workload without any performance implications. What should you do?

- A. Purchase Committed Use Discounts.
- B. Migrate the instances to a Managed Instance Group.
- C. Convert the instances to preemptible virtual machines.
- D. Create an Unmanaged Instance Group for the instances used to run the workload.

**Answer:** A

**NEW QUESTION 9**

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

**Answer:** D

**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 10**

You currently store the virtual machine (VM) utilization logs in Stackdriver. You need to provide an easy-to-share interactive VM utilization dashboard that is updated in real time and contains information aggregated on a quarterly basis. You want to use Google Cloud Platform solutions. What should you do?

- A. \* 1. Export VM utilization logs from Stackdriver to BigQuery.\* 2. Create a dashboard in Data Studio.\* 3. Share the dashboard with your stakeholders.
- B. \* 1. Export VM utilization logs from Stackdriver to Cloud Pub/Sub.\* 2. From Cloud Pub/Sub, send the logs to a Security Information and Event Management (SIEM) system.\* 3. Build the dashboards in the SIEM system and share with your stakeholders.
- C. \* 1. Export VM utilization logs (rom Stackdriver to BigQuery.\* 2. From BigQuer
- D. export the logs to a CSV file.\* 3. Import the CSV file into Google Sheets.\* 4. Build a dashboard in Google Sheets and share it with your stakeholders.
- E. \* 1. Export VM utilization logs from Stackdriver to a Cloud Storage bucket.\* 2. Enable the Cloud Storage API to pull the logs programmatically.\* 3. Build a custom data visualization application.\* 4. Display the pulled logs in a custom dashboard.

**Answer:** A

#### NEW QUESTION 10

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 15

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 20

You need to reduce the cost of virtual machines (VM) for your organization. After reviewing different options, you decide to leverage preemptible VM instances. Which application is suitable for preemptible VMs?

- A. A scalable in-memory caching system
- B. The organization's public-facing website
- C. A distributed, eventually consistent NoSQL database cluster with sufficient quorum
- D. A GPU-accelerated video rendering platform that retrieves and stores videos in a storage bucket

**Answer:** D

#### Explanation:

<https://cloud.google.com/compute/docs/instances/preemptible>

#### NEW QUESTION 24

You are responsible for creating and modifying the Terraform templates that define your Infrastructure. Because two new engineers will also be working on the same code, you need to define a process and adopt a tool that will prevent you from overwriting each other's code. You also want to ensure that you capture all updates in the latest version. What should you do?

- A. • Store your code in a Git-based version control system. • Establish a process that allows developers to merge their own changes at the end of each day. • Package and upload code to a versioned Cloud Storage bucket as the latest master version.
- B. • Store your code in a Git-based version control system. • Establish a process that includes code reviews by peers and unit testing to ensure integrity and functionality before integration of code. • Establish a process where the fully integrated code in the repository becomes the latest master version.
- C. • Store your code as text files in Google Drive in a defined folder structure that organizes the files. • At the end of each day
- D. confirm that all changes have been captured in the files within the folder structure. • Rename the folder structure with a predefined naming convention that increments the version.
- E. • Store your code as text files in Google Drive in a defined folder structure that organizes the files. • At the end of each day, confirm that all changes have been captured in the files within the folder structure and create a new .zip archive with a predefined naming convention. • Upload the .zip archive to a versioned Cloud Storage bucket and accept it as the latest version.

**Answer:** B

#### NEW QUESTION 29

Your team is designing a new application for deployment into Google Kubernetes Engine (GKE). You need to set up monitoring to collect and aggregate various application-level metrics in a centralized location. You want to use Google Cloud Platform services while minimizing the amount of work required to set up monitoring. What should you do?

- A. Publish various metrics from the application directly to the Stackdriver Monitoring API, and then observe these custom metrics in Stackdriver.
- B. Install the Cloud Pub/Sub client libraries, push various metrics from the application to various topics, and then observe the aggregated metrics in Stackdriver.
- C. Install the OpenTelemetry client libraries in the application, configure Stackdriver as the export destination for the metrics, and then observe the application's metrics in Stackdriver.
- D. Emit all metrics in the form of application-specific log messages, pass these messages from the containers to the Stackdriver logging collector, and then observe metrics in Stackdriver.

**Answer:** A

#### Explanation:



[https://cloud.google.com/kubernetes-engine/docs/concepts/custom-and-external-metrics#custom\\_metrics](https://cloud.google.com/kubernetes-engine/docs/concepts/custom-and-external-metrics#custom_metrics) <https://github.com/GoogleCloudPlatform/k8s-stackdriver/blob/master/custom-metrics-stackdriver-adapter/REA> Your application can report a custom metric to Cloud Monitoring. You can configure Kubernetes to respond to these metrics and scale your workload automatically. For example, you can scale your application based on metrics such as queries per second, writes per second, network performance, latency when communicating with a different application, or other metrics that make sense for your workload.  
<https://cloud.google.com/kubernetes-engine/docs/concepts/custom-and-external-metrics>

#### NEW QUESTION 31

You support an application running on GCP and want to configure SMS notifications to your team for the most critical alerts in Stackdriver Monitoring. You have already identified the alerting policies you want to configure this for. What should you do?

- A. Download and configure a third-party integration between Stackdriver Monitoring and an SMS gateway. Ensure that your team members add their SMS/phone numbers to the external tool.
- B. Select the Webhook notifications option for each alerting policy, and configure it to use a third-party integration too
- C. Ensure that your team members add their SMS/phone numbers to the external tool.
- D. Ensure that your team members set their SMS/phone numbers in their Stackdriver Profile
- E. Select the SMS notification option for each alerting policy and then select the appropriate SMS/phone numbers from the list.
- F. Configure a Slack notification for each alerting policy
- G. Set up a Slack-to-SMS integration to send SMS messages when Slack messages are received
- H. Ensure that your team members add their SMS/phone numbers to the external integration.

**Answer:** C

#### Explanation:

[https://cloud.google.com/monitoring/support/notification-options#creating\\_channels](https://cloud.google.com/monitoring/support/notification-options#creating_channels) To configure SMS notifications, do the following:  
In the SMS section, click Add new and follow the instructions. Click Save. When you set up your alerting policy, select the SMS notification type and choose a verified phone number from the list.

#### NEW QUESTION 33

You are deploying an application that needs to access sensitive information. You need to ensure that this information is encrypted and the risk of exposure is minimal if a breach occurs. What should you do?

- A. Store the encryption keys in Cloud Key Management Service (KMS) and rotate the keys frequently
- B. Inject the secret at the time of instance creation via an encrypted configuration management system.
- C. Integrate the application with a Single sign-on (SSO) system and do not expose secrets to the application
- D. Leverage a continuous build pipeline that produces multiple versions of the secret for each instance of the application.

**Answer:** A

#### Explanation:

<https://cloud.google.com/security-key-management>

#### NEW QUESTION 34

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 of 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 36

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 40

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 team
- B. Assign the SRE team the Monitoring Viewer IAM role in the workspace project.
- C. Share the workspace Project ID with the SRE team
- 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 team
- 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 team

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 43

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 47

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 52

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 54

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. Grant the team members the IAM role of logging.configWriter on Cloud IAM.
- B. Configure Access Context Manager to allow only these members to export logs.
- 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:** A

**Explanation:**

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

#### NEW QUESTION 58

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 61

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 GCP
- 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 66

You support an e-commerce application that runs on a large Google Kubernetes Engine (GKE) cluster deployed on-premises and on Google Cloud Platform. The application consists of microservices that run in containers. You want to identify containers that are using the most CPU and memory. What should you do?

- A. Use Stackdriver Kubernetes Engine Monitoring.
- B. Use Prometheus to collect and aggregate logs per container, and then analyze the results in Grafana.
- C. Use the Stackdriver Monitoring API to create custom metrics, and then organize your containers using groups.
- D. Use Stackdriver Logging to export application logs to BigQuery
- E. aggregate logs per container, and then analyze CPU and memory consumption.

**Answer: A**

#### Explanation:

<https://cloud.google.com/anthos/clusters/docs/on-prem/1.7/concepts/logging-and-monitoring>

#### NEW QUESTION 70

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 project
- B. Create Stackdriver workspaces inside each project.
- C. Grant relevant team members the Project Viewer IAM role on all GCP production project
- 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 74

You support a user-facing web application. When analyzing the application's error budget over the previous six months, you notice that the application has never consumed more than 5% of its error budget in any given time window. You hold a Service Level Objective (SLO) review with business stakeholders and confirm that the SLO is set appropriately. You want your application's SLO to more closely reflect its observed reliability. What steps can you take to further that goal while balancing velocity, reliability, and business needs? (Choose two.)

- A. Add more serving capacity to all of your application's zones.
- B. Have more frequent or potentially risky application releases.
- C. Tighten the SLO to match the application's observed reliability.
- D. Implement and measure additional Service Level Indicators (SLIs) from the application.
- E. Announce planned downtime to consume more error budget, and ensure that users are not depending on a tighter SLO.

**Answer: DE**

#### Explanation:

<https://sre.google/sre-book/service-level-objectives/>

You want the application's SLO to more closely reflect its observed reliability. The key here is error budget never goes over 5%. This means they can have additional downtime and still stay within their budget.

#### NEW QUESTION 77

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 82**

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