



Google

Exam Questions Professional-Cloud-DevOps-Engineer

Google Cloud Certified - Professional Cloud DevOps Engineer Exam

NEW QUESTION 1

Your company follows Site Reliability Engineering principles. You are writing a postmortem for an incident, triggered by a software change, that severely affected users. You want to prevent severe incidents from happening in the future. What should you do?

- A. Identify engineers responsible for the incident and escalate to their senior management.
- B. Ensure that test cases that catch errors of this type are run successfully before new software releases.
- C. Follow up with the employees who reviewed the changes and prescribe practices they should follow in the future.
- D. Design a policy that will require on-call teams to immediately call engineers and management to discuss a plan of action if an incident occurs.

Answer: B

NEW QUESTION 2

You support an application running on App Engine. The application is used globally and accessed from various device types. You want to know the number of connections. You are using Stackdriver Monitoring for App Engine. What metric should you use?

- A. flex/connections/current
- B. tcp_ssl_proxy/new_connections
- C. tcp_ssl_proxy/open_connections
- D. flex/instance/connections/current

Answer: A

Explanation:

https://cloud.google.com/monitoring/api/metrics_gcp#gcp-appengine

NEW QUESTION 3

You have a set of applications running on a Google Kubernetes Engine (GKE) cluster, and you are using Stackdriver Kubernetes Engine Monitoring. You are bringing a new containerized application required by your company into production. This application is written by a third party and cannot be modified or reconfigured. The application writes its log information to `/var/log/app_messages.log`, and you want to send these log entries to Stackdriver Logging. What should you do?

- A. Use the default Stackdriver Kubernetes Engine Monitoring agent configuration.
- B. Deploy a Fluentd daemonset to GK
- C. Then create a customized input and output configuration to tail the log file in the application's pods and write to Stackdriver Logging.
- D. Install Kubernetes on Google Compute Engine (GCE) and redeploy your application
- E. Then customize the built-in Stackdriver Logging configuration to tail the log file in the application's pods and write to Stackdriver Logging.
- F. Write a script to tail the log file within the pod and write entries to standard output
- G. Run the script as a sidecar container with the application's pod
- H. Configure a shared volume between the containers to allow the script to have read access to `/var/log` in the application container.

Answer: B

Explanation:

<https://cloud.google.com/architecture/customizing-stackdriver-logs-fluentd>

Besides the list of default logs that the Logging agent streams by default, you can customize the Logging agent to send additional logs to Logging or to adjust agent settings by adding input configurations. The configuration definitions in these sections apply to the fluent-plugin-google-cloud output plugin only and specify how logs are transformed and ingested into Cloud Logging. <https://cloud.google.com/logging/docs/agent/logging/configuration#configure>

NEW QUESTION 4

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 5

You support a production service that runs on a single Compute Engine instance. You regularly need to spend time on recreating the service by deleting the crashing instance and creating a new instance based on the relevant image. You want to reduce the time spent performing manual operations while following Site Reliability Engineering principles. What should you do?

- A. File a bug with the development team so they can find the root cause of the crashing instance.
- B. Create a Managed Instance Group with a single instance and use health checks to determine the system status.
- C. Add a Load Balancer in front of the Compute Engine instance and use health checks to determine the system status.
- D. Create a Stackdriver Monitoring dashboard with SMS alerts to be able to start recreating the crashed instance promptly after it has crashed.

Answer: B

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 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 from Stackdriver to BigQuery.* 2. From BigQuery
- 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 8

You are on-call for an infrastructure service that has a large number of dependent systems. You receive an alert indicating that the service is failing to serve most of its requests and all of its dependent systems with hundreds of thousands of users are affected. As part of your Site Reliability Engineering (SRE) incident management protocol, you declare yourself Incident Commander (IC) and pull in two experienced people from your team as Operations Lead (OLJ) and Communications Lead (CL). What should you do next?

- A. Look for ways to mitigate user impact and deploy the mitigations to production.
- B. Contact the affected service owners and update them on the status of the incident.
- C. Establish a communication channel where incident responders and leads can communicate with each other.
- D. Start a postmortem, add incident information, circulate the draft internally, and ask internal stakeholders for input.

Answer: A

Explanation:

<https://sre.google/sre-book/managing-incidents/>

NEW QUESTION 9

You support a Node.js application running on Google Kubernetes Engine (GKE) in production. The application makes several HTTP requests to dependent applications. You want to anticipate which dependent applications might cause performance issues. What should you do?

- A. Instrument all applications with Stackdriver Profiler.
- B. Instrument all applications with Stackdriver Trace and review inter-service HTTP requests.
- C. Use Stackdriver Debugger to review the execution of logic within each application to instrument all applications.
- D. Modify the Node.js application to log HTTP request and response times to dependent application
- E. Use Stackdriver Logging to find dependent applications that are performing poorly.

Answer: B

NEW QUESTION 10

You are responsible for the reliability of a high-volume enterprise application. A large number of users report that an important subset of the application's functionality – a data intensive reporting feature – is consistently failing with an HTTP 500 error. When you investigate your application's dashboards, you notice a strong correlation between the failures and a metric that represents the size of an internal queue used for generating reports. You trace the failures to a reporting backend that is experiencing high I/O wait times. You quickly fix the issue by resizing the backend's persistent disk (PD). How you need to create an availability Service Level Indicator (SLI) for the report generation feature. How would you define it?

- A. As the I/O wait times aggregated across all report generation backends
- B. As the proportion of report generation requests that result in a successful response
- C. As the application's report generation queue size compared to a known-good threshold
- D. As the reporting backend PD throughput capacity compared to a known-good threshold

Answer: B

Explanation:

According to SRE Workbook, one of potential SLI is as below:

* Type of service: Request-driven

* Type of SLI: Availability

* Description: The proportion of requests that resulted in a successful response. <https://sre.google/workbook/implementing-slos/>

NEW QUESTION 10

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 13

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 18

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 21

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 25

You are managing the production deployment to a set of Google Kubernetes Engine (GKE) clusters. You want to make sure only images which are successfully built by your trusted CI/CD pipeline are deployed to production. What should you do?

- A. Enable Cloud Security Scanner on the clusters.
- B. Enable Vulnerability Analysis on the Container Registry.
- C. Set up the Kubernetes Engine clusters as private clusters.
- D. Set up the Kubernetes Engine clusters with Binary Authorization.

Answer: D

Explanation:

<https://cloud.google.com/binary-authorization/docs/overview>

NEW QUESTION 26

You deploy a new release of an internal application during a weekend maintenance window when there is minimal user traffic. After the window ends, you learn that one of the new features isn't working as expected in the production environment. After an extended outage, you roll back the new release and deploy a fix. You want to modify your release process to reduce the mean time to recovery so you can avoid extended outages in the future. What should you do? Choose 2 answers

- A. Before merging new code, require 2 different peers to review the code changes.
- B. Adopt the blue/green deployment strategy when releasing new code via a CD server.
- C. Integrate a code linting tool to validate coding standards before any code is accepted into the repository.
- D. Require developers to run automated integration tests on their local development environments before release.
- E. Configure a CI server
- F. Add a suite of unit tests to your code and have your CI server run them on commit and verify any changes.

Answer: BE

NEW QUESTION 29

You are managing an application that exposes an HTTP endpoint without using a load balancer. The latency of the HTTP responses is important for the user experience. You want to understand what HTTP latencies all of your users are experiencing. You use Stackdriver Monitoring. What should you do?

- A. • In your application, create a metric with a metricKind set to DELTA and a valueType set to DOUBLE. • In Stackdriver's Metrics Explorer, use a Slacked Bar graph to visualize the metric.
- B. • In your application, create a metric with a metricKind set to CUMULATIVE and a valueType set to DOUBLE. • In Stackdriver's Metrics Explorer, use a Line graph to visualize the metric.
- C. • In your application, create a metric with a metricKind set to gauge and a valueType set to distribution. • In Stackdriver's Metrics Explorer, use a Heatmap graph to visualize the metric.
- D. • In your application, create a metric with a metricKin
- E. set to METRIC_KIND_UNSPECIFIED and a valueType set to INT64. • In Stackdriver's Metrics Explorer, use a Stacked Area graph to visualize the metric.

Answer: C

Explanation:

<https://sre.google/workbook/implementing-slos/> <https://cloud.google.com/architecture/adopting-slos/>
 Latency is commonly measured as a distribution. Given a distribution, you can measure various percentiles. For example, you might measure the number of requests that are slower than the historical 99th percentile.

NEW QUESTION 33

You are performing a semiannual capacity planning exercise for your flagship service. You expect a service user growth rate of 10% month-over-month over the next six months. Your service is fully containerized and runs on Google Cloud Platform (GCP). using a Google Kubernetes Engine (GKE) Standard regional cluster on three zones with cluster autoscaler enabled. You currently consume about 30% of your total deployed CPU capacity, and you require resilience against the failure of a zone. You want to ensure that your users experience minimal negative impact as a result of this growth or as a result of zone failure, while avoiding unnecessary costs. How should you prepare to handle the predicted growth?

- A. Verify the maximum node pool size, enable a horizontal pod autoscaler, and then perform a load test to verify your expected resource needs.
- B. Because you are deployed on GKE and are using a cluster autoscale
- C. your GKE cluster will scale automatically, regardless of growth rate.
- D. Because you are at only 30% utilization, you have significant headroom and you won't need to add any additional capacity for this rate of growth.
- E. Proactively add 60% more node capacity to account for six months of 10% growth rate, and then perform a load test to make sure you have enough capacity.

Answer: A

Explanation:

<https://cloud.google.com/kubernetes-engine/docs/concepts/horizontalpodautoscaler>
 The Horizontal Pod Autoscaler changes the shape of your Kubernetes workload by automatically increasing or decreasing the number of Pods in response to the workload's CPU or memory consumption

NEW QUESTION 34

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