



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 encounter a large number of outages in the production systems you support. You receive alerts for all the outages that wake you up at night. The alerts are due to unhealthy systems that are automatically restarted within a minute. You want to set up a process that would prevent staff burnout while following Site Reliability Engineering practices. What should you do?

- A. Eliminate unactionable alerts.
- B. Create an incident report for each of the alerts.
- C. Distribute the alerts to engineers in different time zones.
- D. Redefine the related Service Level Objective so that the error budget is not exhausted.

Answer: A

Explanation:

Eliminate bad monitoring : Unactionable alerts (i.e., spam) <https://cloud.google.com/blog/products/management-tools/meeting-reliability-challenges-with-sre-principles>

agree with kyubilaze about having to remove unactionable items aka spam: "good monitoring alerts on actionable problems" @ <https://cloud.google.com/blog/products/management-tools/meeting-reliability-challenges-with-sre-principles>

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 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 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 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 7

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

NEW QUESTION 8

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 9

Your team uses Cloud Build for all CI/CO pipelines. You want to use the kubectl builder for Cloud Build to deploy new images to Google Kubernetes Engine (GKE). You need to authenticate to GKE while minimizing development effort. What should you do?

- A. Assign the Container Developer role to the Cloud Build service account.
- B. Specify the Container Developer role for Cloud Build in the cloudbuild.yaml file.
- C. Create a new service account with the Container Developer role and use it to run Cloud Build.
- D. Create a separate step in Cloud Build to retrieve service account credentials and pass these to kubectl.

Answer: A

Explanation:

<https://cloud.google.com/build/docs/deploying-builds/deploy-gke> <https://cloud.google.com/build/docs/securing-builds/configure-user-specified-service-accounts>

NEW QUESTION 10

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

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 15

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 19

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 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 24

You manage several production systems that run on Compute Engine in the same Google Cloud Platform (GCP) project. Each system has its own set of dedicated Compute Engine instances. You want to know how much it costs to run each of the systems. What should you do?

- A. In the Google Cloud Platform Console, use the Cost Breakdown section to visualize the costs per system.
- B. Assign all instances a label specific to the system they run
- C. Configure BigQuery billing export and query costs per label.
- D. Enrich all instances with metadata specific to the system they run
- E. Configure Stackdriver Logging to export to BigQuery, and query costs based on the metadata.
- F. Name each virtual machine (VM) after the system it run
- G. Set up a usage report export to a Cloud Storage bucket
- H. Configure the bucket as a source in BigQuery to query costs based on VM name.

Answer: B

Explanation:

<https://cloud.google.com/billing/docs/how-to/export-data-bigquery>

NEW QUESTION 28

You have migrated an e-commerce application to Google Cloud Platform (GCP). You want to prepare the application for the upcoming busy season. What should you do first to prepare for the busy season?

- A. Load test the application to profile its performance for scaling.
- B. Enable AutoScaling on the production clusters, in case there is growth.
- C. Pre-provision double the compute power used last season, expecting growth.
- D. Create a runbook on inflating the disaster recovery (DR) environment if there is growth.

Answer: A

Explanation:

<https://cloud.google.com/blog/topics/retail/preparing-for-peak-holiday-season-while-wfh>

NEW QUESTION 31

You are writing a postmortem for an incident that severely affected users. You want to prevent similar incidents in the future. Which two of the following sections should you include in the postmortem? (Choose two.)

- A. An explanation of the root cause of the incident
- B. A list of employees responsible for causing the incident
- C. A list of action items to prevent a recurrence of the incident
- D. Your opinion of the incident's severity compared to past incidents
- E. Copies of the design documents for all the services impacted by the incident

Answer: AC

Explanation:

For a postmortem to be truly blameless, it must focus on identifying the contributing causes of the incident without indicting any individual or team for bad or inappropriate behavior.

NEW QUESTION 33

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