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Google Cloud Certified - Professional Cloud DevOps Engineer Exam Sample Questions (Q47-Q52):

NEW QUESTION # 47

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. Add an extra node pool that consists of high memory and high CPU machine type instances to the cluster.

- C. Use Stackdriver Monitoring to check for a spike in CPU or memory usage for the affected region.
- 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 # 48

You manage an application that runs in Google Kubernetes Engine (GKE) and uses the blue/green deployment methodology. Extracts of the Kubernetes manifests are shown below.

□ The Deployment app-green was updated to use the new version of the application. During post-deployment monitoring, you notice that the majority of user requests are failing. You did not observe this behavior in the testing environment. You need to mitigate the incident impact on users and enable the developers to troubleshoot the issue. What should you do?

- A. Update the Deployment app-green to use the previous version of the application.
- B. Change the selector on the Service app-2vc to app: my-app.
- **C. Change the selector on the Service app-svc to app: my-app, version: blue**
- D. Update the Deployment app-blue to use the new version of the application.

Answer: C

Explanation:

Explanation

The best option for mitigating the incident impact on users and enabling the developers to troubleshoot the issue is to change the selector on the Service app-svc to app: my-app, version: blue. A Service is a resource that defines how to access a set of Pods. A selector is a field that specifies which Pods are selected by the Service. By changing the selector on the Service app-svc to app: my-app, version: blue, you can ensure that the Service only routes traffic to the Pods that have both labels app: my-app and version: blue. These Pods belong to the Deployment app-blue, which uses the previous version of the application. This way, you can mitigate the incident impact on users by switching back to the working version of the application. You can also enable the developers to troubleshoot the issue with the new version of the application in the Deployment app-green without affecting users.

NEW QUESTION # 49

Your company is migrating its production systems to Google Cloud. You need to implement site reliability engineering (SRE) practices during the migration to minimize customer impact from potential future incidents. Which two SRE practices should you implement?

Choose 2 answers

- **A. Automate common tasks to analyze key impact information and intelligently suggest mitigating actions for the on-call team.**
- B. Create an alerting mechanism for your SRE team based on your system's internal behavior.
- C. Ensure that all teams can modify the production environment to resolve issues.
- D. Ensure that full autonomy and permissions are only granted to the on-call team.
- **E. Create up-to-date playbooks with instructions for debugging and mitigating issues.**

Answer: A,E

Explanation:

Comprehensive and Detailed Explanation From General SRE Principles and Google Cloud Knowledge:

Site Reliability Engineering (SRE) emphasizes reliability, automation, and a data-driven approach to operations. The goal is to minimize the "time to detect" (TTD) and "time to resolve" (TTR) for incidents.

Option A (Ensure that full autonomy and permissions are only granted to the on-call team): While the on-call team needs appropriate permissions to act decisively during an incident, granting full autonomy and only to them can be a bottleneck and goes against the principle of least privilege if not carefully scoped. Broader teams might need specific, controlled access for their responsibilities. SRE encourages empowering teams but within a structured framework.

Option B (Automate common tasks to analyze key impact information and intelligently suggest mitigating actions for the on-call team): This is a core SRE practice. Automation reduces toil, speeds up response, and ensures consistency. Analyzing impact and suggesting mitigations helps the on-call team resolve issues faster and more effectively.

Option C (Ensure that all teams can modify the production environment to resolve issues): This is generally a bad practice and

against SRE principles of controlled changes and reducing the blast radius of errors.

Production changes should be managed, audited, and ideally automated, not open to modification by all teams, as this increases the risk of unintended incidents.

Option D (Create an alerting mechanism for your SRE team based on your system's internal behavior): While alerting is crucial, SRE emphasizes alerting on symptoms that affect users (Service Level Objectives - SLOs) rather than just internal behavior or causes.

Alerting solely on internal behavior can lead to alert fatigue and may not correlate directly with user impact. Good alerting focuses on user-facing impact first.

Option E (Create up-to-date playbooks with instructions for debugging and mitigating issues): Playbooks (or runbooks) are essential in SRE. They document known issues, troubleshooting steps, and mitigation procedures. Keeping them up-to-date ensures that on-call engineers can respond to incidents quickly and consistently, even for less common issues, thereby minimizing customer impact. Therefore, automating incident response tasks (B) and maintaining clear, actionable playbooks (E) are two key SRE practices to implement for minimizing customer impact.

Reference (Based on SRE principles):

The SRE books by Google (e.g., "Site Reliability Engineering: How Google Runs Production Systems") heavily emphasize automation to reduce toil and the importance of playbooks for incident management.

Google Cloud SRE solutions: <https://cloud.google.com/sre>

Specifically, regarding playbooks and automation: "Playbooks should be living documents, updated regularly as systems change and new incidents provide new lessons."

"SREs aim to automate repetitive tasks (toil) to free up time for engineering projects that improve reliability."

NEW QUESTION # 50

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. Follow up with the employees who reviewed the changes and prescribe practices they should follow in the future.
- B. Identify engineers responsible for the incident and escalate to their senior management.
- **C. Ensure that test cases that catch errors of this type are run successfully before new software releases.**
- 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: C

Explanation:

The best way to prevent severe incidents from happening in the future is to ensure that test cases that catch errors of this type are run successfully before new software releases. This is aligned with the Site Reliability Engineering principle of testing for reliability.

NEW QUESTION # 51

You are leading a DevOps project for your organization. The DevOps team is responsible for managing the service infrastructure and being on-call for incidents. The Software Development team is responsible for writing, submitting, and reviewing code. Neither team has any published SLOs. You want to design a new joint-ownership model for a service between the DevOps team and the Software Development team. Which responsibilities should be assigned to each team in the new joint-ownership model?

- A. Option B
- **B. Option D**
- C. Option C
- D. Option A

Answer: B

Explanation:

The correct answer is D. Option D.

According to the DevOps best practices, a joint-ownership model for a service between the DevOps team and the Software Development team should follow these principles¹²:

The DevOps team and the Software Development team should share the responsibility and collaboration for managing the service infrastructure, performing code reviews, and adopting and sharing SLOs for the service.

The DevOps team and the Software Development team should have end-to-end ownership of the service, from design to development to deployment to operation to maintenance.

The DevOps team and the Software Development team should use common tools and processes to facilitate communication, coordination, and feedback.

The DevOps team and the Software Development team should align their goals and incentives with the business outcomes and customer satisfaction.

Option D is the only option that reflects these principles. Option D assigns both teams the responsibilities of managing the service infrastructure, performing code reviews, and adopting and sharing SLOs for the service.

Option D also implies that both teams have end-to-end ownership of the service, as they are involved in every stage of the service lifecycle. Option D also encourages both teams to use common tools and processes, such as GitLab3, to collaborate and communicate effectively. Option D also aligns both teams with the business outcomes and customer satisfaction, as they use SLOs to measure and improve the service quality.

The other options are incorrect because they do not follow the DevOps best practices. Option A is incorrect because it assigns only the DevOps team the responsibility of managing the service infrastructure, which creates a silo between the two teams and reduces their collaboration. Option A also does not assign any responsibility for adopting and sharing SLOs for the service, which means that both teams lack a common metric for measuring and improving the service quality. Option B is incorrect because it assigns only the Software Development team the responsibility of performing code reviews, which creates a gap between the two teams and reduces their feedback. Option B also does not assign any responsibility for adopting and sharing SLOs for the service, which means that both teams lack a common metric for measuring and improving the service quality. Option C is incorrect because it assigns both teams the same responsibilities as option A and option B, which combines their drawbacks.

Reference:

5 key organizational models for DevOps teams | GitLab, 5 key organizational models for DevOps teams | GitLab. Building a Culture of Full-Service Ownership - DevOps.com, Building a Culture of Full-Service Ownership - DevOps.com GitLab, GitLab.

NEW QUESTION # 52

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