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GCP-CDOE

ExamName: Cloud DevOps Engineer

Exam Version: 6.0

Questions & Answers Sample PDF

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Question 1. (Single Select)

You need to deploy a new service to production. The service needs to automatically scale using a Managed Instance Group (MIG) and should be deployed over multiple regions. The service needs a large number of resources for each instance and you need to plan for capacity. What should you do?

- A: Use the n1-highcpu-96 machine type in the configuration of the MIG.
- B: Monitor results of Stackdriver Trace to determine the required amount of resources.
- C: Validate that the resource requirements are within the available quota limits of each region.
- D: Deploy the service in one region and use a global load balancer to route traffic to this region.

Answer: C

Explanation:

https://cloud.google.com/compute/quotas#understanding_quotas <https://cloud.google.com/compute/quotas>

Question 2. (Multi Select)

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: B, E

Question 3. (Single Select)

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>

Question 4. (Single Select)

You support an application deployed on Compute Engine. The application connects to a Cloud SQL instance to store and retrieve data.

a. After an update to the application, users report errors showing database timeout messages. The number of concurrent active users remained stable. You need to find the most probable cause of the database timeout. What should you do?

- A: Check the serial port logs of the Compute Engine instance.
- B: Use Stackdriver Profiler to visualize the resources utilization throughout the application.
- C: Determine whether there is an increased number of connections to the Cloud SQL instance.
- D: Use Cloud Security Scanner to see whether your Cloud SQL is under a Distributed Denial of Service (DDoS) attack.

Answer: B

Question 5. (Single Select)

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

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