



# PROFESSIONAL-CLOUD-DEVOPS- ENGINEER<sup>Q&As</sup>

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### QUESTION 1

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.

Correct Answer: A

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### QUESTION 2

You support a trading application written in Python and hosted on App Engine flexible environment. You want to customize the error information being sent to Stackdriver Error Reporting. What should you do?

- A. Install the Stackdriver Error Reporting library for Python, and then run your code on a Compute Engine VM.
- B. Install the Stackdriver Error Reporting library for Python, and then run your code on Google Kubernetes Engine.
- C. Install the Stackdriver Error Reporting library for Python, and then run your code on App Engine flexible environment.
- D. Use the Stackdriver Error Reporting API to write errors from your application to ReportedErrorEvent, and then generate log entries with properly formatted error messages in Stackdriver Logging.

Correct Answer: D

If you're using the Error Reporting API, you can report error events from your application by writing them to ReportedErrorEvent. Doing this generates log entries with properly formatted error messages in Cloud Logging.

<https://cloud.google.com/error-reporting/docs/formatting-error-messages>

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### QUESTION 3

Your organization is using Helm to package containerized applications. Your applications reference both public and private charts. Your security team flagged that using a public Helm repository as a dependency is a risk. You want to manage all charts uniformly, with native access control and VPC Service Controls. What should you do?

- A. Store public and private charts in OCI format by using Artifact Registry.
- B. Store public and private charts by using GitHub Enterprise with Google Workspace as the identity provider.
- C. Store public and private charts by using Git repository. Configure Cloud Build to synchronize contents of the repository into a Cloud Storage bucket. Connect Helm to the bucket by using `https://[bucket].storage-`



googleapis.com/[helmchart] as the Helm repository.

D. Configure a Helm chart repository server to run in Google Kubernetes Engine (GKE) with Cloud Storage bucket as the storage backend.

Correct Answer: A

<https://cloud.google.com/artifact-registry/docs/helm>

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#### QUESTION 4

You are building the CI/CD pipeline for an application deployed to Google Kubernetes Engine (GKE). The application is deployed by using a Kubernetes Deployment, Service, and Ingress. The application team asked you to deploy the application by using the blue/green deployment methodology. You need to implement the rollback actions. What should you do?

- A. Run the kubectl rollout undo command.
- B. Delete the new container image, and delete the running Pods.
- C. Update the Kubernetes Service to point to the previous Kubernetes Deployment.
- D. Scale the new Kubernetes Deployment to zero.

Correct Answer: C

The point of using blue/green deployment is to have both blue and green versions deployed, and we chose the active one at service level, so rollback should only consist of updating the service to serve the other version.

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#### QUESTION 5

You are performing a semi-annual 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 autoscaler, your GKE cluster will scale automatically regardless of growth rate.
- C. 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.
- D. 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.

Correct Answer: A



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<https://cloud.google.com/kubernetes-engine/docs/concepts/horizontalpodautoscaler>

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