



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

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### QUESTION 3

You are creating a CI/CD pipeline to perform Terraform deployments of Google Cloud resources. Your CI/CD tooling is running in Google Kubernetes Engine (GKE) and uses an ephemeral Pod for each pipeline run. You must ensure that the pipelines that run in the Pods have the appropriate Identity and Access Management (IAM) permissions to perform the Terraform deployments. You want to follow Google-recommended practices for identity management. What should you do? (Choose two.)

- A. Create a new Kubernetes service account, and assign the service account to the Pods. Use Workload Identity to authenticate as the Google service account.
- B. Create a new JSON service account key for the Google service account, store the key as a Kubernetes secret, inject the key into the Pods, and set the `GOOGLE_APPLICATION_CREDENTIALS` environment variable.
- C. Create a new Google service account, and assign the appropriate IAM permissions.
- D. Create a new JSON service account key for the Google service account, store the key in the secret management store for the CI/CD tool, and configure Terraform to use this key for authentication.
- E. Assign the appropriate IAM permissions to the Google service account associated with the Compute Engine VM instances that run the Pods.

Correct Answer: AC

Workload Identity is the recommended way to authenticate to Google Cloud services from GKE. reference:  
<https://cloud.google.com/kubernetes-engine/docs/tutorials/authenticating-to-cloud-platform>

### QUESTION 4

Your company runs applications in Google Kubernetes Engine (GKE). Several applications rely on ephemeral volumes. You noticed some applications were unstable due to the `DiskPressure` node condition on the worker nodes. You need to identify which Pods are causing the issue, but you do not have execute access to workloads and nodes. What should you do?

- A. Check the `node/ephemeral_storage/used_bytes` metric by using Metrics Explorer.
- B. Check the `container/ephemeral_storage/used_bytes` metric by using Metrics Explorer.
- C. Locate all the Pods with `emptyDir` volumes. Use the `df -h` command to measure volume disk usage.
- D. Locate all the Pods with `emptyDir` volumes. Use the `df -sh *` command to measure volume disk usage.

Correct Answer: A

`node/ephemeral_storage/used_bytes` GA Ephemeral storage usage GAUGE, INT64, By `k8s_node` Local ephemeral storage bytes used by the node. Sampled every 60 seconds.

[https://cloud.google.com/monitoring/api/metrics\\_kubernetes](https://cloud.google.com/monitoring/api/metrics_kubernetes)

### QUESTION 5

Your team deploys applications to three Google Kubernetes Engine (GKE) environments: development, staging, and production. You use GitHub repositories as your source of truth. You need to ensure that the three environments are consistent. You want to follow Google-recommended practices to enforce and install network policies and a logging



DaemonSet on all the GKE clusters in those environments. What should you do?

- A. Use Google Cloud Deploy to deploy the network policies and the DaemonSet. Use Cloud Monitoring to trigger an alert if the network policies and DaemonSet drift from your source in the repository.
- B. Use Google Cloud Deploy to deploy the DaemonSet and use Policy Controller to configure the network policies. Use Cloud Monitoring to detect drifts from the source in the repository and Cloud Functions to correct the drifts.
- C. Use Cloud Build to render and deploy the network policies and the DaemonSet. Set up Config Sync to sync the configurations for the three environments.
- D. Use Cloud Build to render and deploy the network policies and the DaemonSet. Set up a Policy Controller to enforce the configurations for the three environments.

Correct Answer: C

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