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QUESTION 1

Your team of Infrastructure DevOps Engineers is growing, and you are starting to use Terraform to manage infrastructure. You need a way to implement code versioning and to share code with other team members. What should you do?

A. Store the Terraform code in a version-control system. Establish procedures for pushing new versions and merging with the master.

B. Store the Terraform code in a network shared folder with child folders for each version release. Ensure that everyone works on different files.

C. Store the Terraform code in a Cloud Storage bucket using object versioning. Give access to the bucket to every team member so they can download the files.

D. Store the Terraform code in a shared Google Drive folder so it syncs automatically to every team member\'s computer. Organize files with a naming convention that identifies each new version.

Correct Answer: A

Reference: https://www.terraform.io/docs/cloud/guides/recommended-practices/part3.3.html

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QUESTION 2

Your organization recently adopted a container-based workflow for application development. Your team develops numerous applications that are deployed continuously through an automated build pipeline to a Kubernetes cluster in the production environment. The security auditor is concerned that developers or operators could circumvent automated testing and push code changes to production without approval. What should you do to enforce approvals?

A. Configure the build system with protected branches that require pull request approval.

B. Use an Admission Controller to verify that incoming requests originate from approved sources.

C. Leverage Kubernetes Role-Based Access Control (RBAC) to restrict access to only approved users.

D. Enable binary authorization inside the Kubernetes cluster and configure the build pipeline as an attestor.

Correct Answer: D

https://cloud.google.com/binary-authorization Binary Authorization is a deploy-time security control that ensures only trusted container images are deployed on Google Kubernetes Engine (GKE) or Cloud Run. With Binary Authorization, you can require images to be signed by trusted authorities during the development process and then enforce signature validation when deploying. By enforcing validation, you can gain tighter control over your container environment by ensuring only verified images are integrated into the build-and-release process.

QUESTION 3

You recently noticed that one of your services has exceeded the error budget for the current rolling window period. Your company\'s product team is about to launch a new feature. You want to follow Site Reliability Engineering (SRE) practices. What should you do?

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A. Notify the team about the lack of error budget and ensure that all their tests are successful so the launch will not further risk the error budget

B. Notify the team that their error budget is used up. Negotiate with the team for a launch freeze or tolerate a slightly worse user experience.

C. Escalate the situation and request additional error budget.

D. Look through other metrics related to the product and find SLOs with remaining error budget. Reallocate the error budgets and allow the feature launch.

Correct Answer: B

Negotiate with the team for a launch freeze or tolerate a slightly worse user experience.

QUESTION 4

Your application images are built wing Cloud Build and pushed to Google Container Registry (GCR). You want to be able to specify a particular version of your application for deployment based on the release version tagged in source control. What would you do when you push the image?

A. Reference the image digest in the source control tag.

B. Supply the source control tag as a parameter within the image name.

C. Use Cloud Build to include the release version tag in the application image.

D. Use GCR digest versioning to match the image to the tag in source control.

Correct Answer: C

QUESTION 5

You are deploying a Cloud Build job that deploys Terraform code when a Git branch is updated. While testing, you noticed that the job fails. You see the following error in the build logs:

Initializing the backend...

Error: Failed to get existing workspaces: querying Cloud Storage failed: googleapi: Error 403

You need to resolve the issue by following Google-recommended practices. What should you do?

A. Change the Terraform code to use local state.

B. Create a storage bucket with the name specified in the Terraform configuration.

C. Grant the roles/owner Identity and Access Management (IAM) role to the Cloud Build service account on the project.

D. Grant the roles/storage.objectAdmin Identity and Access Management (1AM) role to the Cloud Build service account on the state file bucket.

Correct Answer: D

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