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QUESTION 1

You are designing a system with three different environments: development, quality assurance (QA), and production. Each environment will be deployed with Terraform and has a Google Kubernetes Engine (GKE) cluster created so that application teams can deploy their applications. Anthos Config Management will be used and templated to deploy infrastructure level resources in each GKE cluster. All users (for example, infrastructure operators and application owners) will use GitOps. How should you structure your source control repositories for both Infrastructure as Code (IaC) and application code?

- A. Cloud Infrastructure (Terraform) repository is shared: different directories are different environments GKE Infrastructure (Anthos Config Management Kustomize manifests) repository is shared: different overlay directories are different environments Application (app source code) repositories are separated: different branches are different features
- B. Cloud Infrastructure (Terraform) repository is shared: different directories are different environments GKE Infrastructure (Anthos Config Management Kustomize manifests) repositories are separated: different branches are different environments Application (app source code) repositories are separated: different branches are different features
- C. Cloud Infrastructure (Terraform) repository is shared: different branches are different environments GKE Infrastructure (Anthos Config Management Kustomize manifests) repository is shared: different overlay directories are different environments Application (app source code) repository is shared: different directories are different features
- D. Cloud Infrastructure (Terraform) repositories are separated: different branches are different environments GKE Infrastructure (Anthos Config Management Kustomize manifests) repositories are separated: different overlay directories are different environments Application (app source code) repositories are separated: different branches are different

Correct Answer: A

QUESTION 2

You use Spinnaker to deploy your application and have created a canary deployment stage in the pipeline. Your application has an in-memory cache that loads objects at start time. You want to automate the comparison of the canary version against the production version. How should you configure the canary analysis?

- A. Compare the canary with a new deployment of the current production version.
- B. Compare the canary with a new deployment of the previous production version.
- C. Compare the canary with the existing deployment of the current production version.
- D. Compare the canary with the average performance of a sliding window of previous production versions.

Correct Answer: A

Reference: <https://spinnaker.io/guides/user/canary/>

QUESTION 3

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.
- | DevOps team responsibilities | Software Development team responsibilities |
|---|--|
| <ul style="list-style-type: none"> • Manage the service infrastructure • Be on-call for incidents • Perform code reviews | <ul style="list-style-type: none"> • Submit code to be reviewed by the DevOps team • Publish the SLOs that the DevOps team must meet |
- B.
- | DevOps team responsibilities | Software Development team responsibilities |
|---|--|
| <ul style="list-style-type: none"> • Manage the service infrastructure • Perform code reviews | <ul style="list-style-type: none"> • Submit code to be reviewed by the DevOps team • Be on-call for incidents • Publish the SLOs that the DevOps team must meet |
- C.
- | DevOps team responsibilities | Shared responsibilities | Software Development team responsibilities |
|---|--|--|
| <ul style="list-style-type: none"> • Manage the service infrastructure | <ul style="list-style-type: none"> • Perform code reviews • Be on-call for incidents on a rotation basis • Adopt and publish SLOs for the service | <ul style="list-style-type: none"> • Submit code to be reviewed |
- D.
- | DevOps team responsibilities | Shared responsibilities | Software Development team responsibilities |
|---|--|--|
| <ul style="list-style-type: none"> • Manage the service infrastructure | <ul style="list-style-type: none"> • Perform code reviews • Be on-call for incidents on a rotation basis • Adopt and publish SLOs for the service | <ul style="list-style-type: none"> • Submit code to be reviewed |

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: C

QUESTION 4

Your organization stores all application logs from multiple Google Cloud projects in a central Cloud Logging project. Your security team wants to enforce a rule that each project team can only view their respective logs and only the operations team can view all the logs. You need to design a solution that meets the security team's requirements while minimizing costs. What should you do?

- A. Grant each project team access to the project _Default view in the central logging project. Grant toggging viewer access to the operations team in the central logging project.
- B. Create Identity and Access Management (IAM) roles for each project team and restrict access to the _Default log view in their individual Google Cloud project. Grant viewer access to the operations team in the central logging project.
- C. Create log views for each project team and only show each project team their application logs. Grant the operations team access to the _AllLogs view in the central logging project.
- D. Export logs to BigQuery tables for each project team. Grant project teams access to their tables. Grant logs writer access to the operations team in the central logging project.

Correct Answer: C

<https://cloud.google.com/logging/docs/logs-views>

QUESTION 5

You support a service with a well-defined Service Level Objective (SLO). Over the previous 6 months, your service has consistently met its SLO and customer satisfaction has been consistently high. Most of your service's operations tasks are automated and few repetitive tasks occur frequently. You want to optimize the balance between reliability and deployment velocity while following site reliability engineering best practices. What should you do? (Choose two.)

- A. Make the service's SLO more strict.
- B. Increase the service's deployment velocity and/or risk.
- C. Shift engineering time to other services that need more reliability.
- D. Get the product team to prioritize reliability work over new features.
- E. Change the implementation of your Service Level Indicators (SLIs) to increase coverage.

Correct Answer: BC

<https://sre.google/workbook/implementing-slos/#slo-decision-matrix>

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