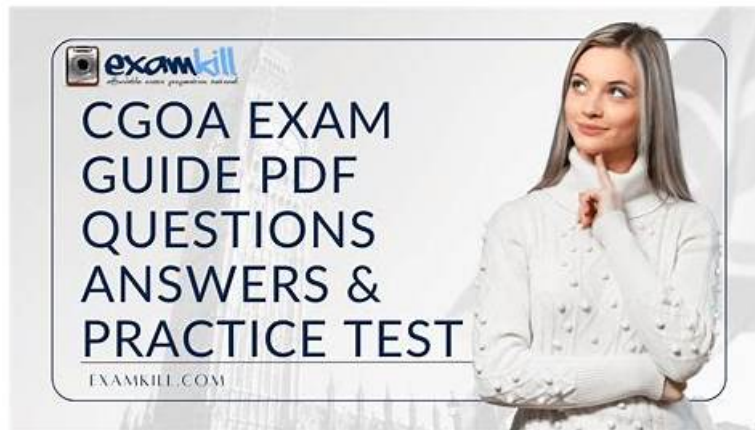


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Linux Foundation CGOA Exam Syllabus Topics:

| Topic | Details |
|---------|--|
| Topic 1 | <ul style="list-style-type: none">• GitOps Patterns: This section of the exam measures skills of Site Reliability Engineers and covers deployment and release patterns, progressive delivery, pull versus event-driven approaches, and various architectural patterns for in-cluster and external reconcilers. |
| Topic 2 | <ul style="list-style-type: none">• GitOps Principles: This section of the exam measures skills of Site Reliability Engineers and covers the main principles of GitOps, such as being declarative, versioned and immutable, automatically pulled, and continuously reconciled. |
| Topic 3 | <ul style="list-style-type: none">• Tooling: This section of the exam measures skills of DevOps Engineers and covers the tools supporting GitOps, including manifest formats, packaging methods, state store systems such as Git and alternatives, reconciliation engines like ArgoCD and Flux, and interoperability with CI, observability, and notification tools. |

| | |
|---------|--|
| Topic 4 | <ul style="list-style-type: none"> • GitOps Terminology: This section of the exam measures the skills of DevOps Engineers and covers the foundational terms of GitOps, including declarative descriptions, desired state, state drift, reconciliation, managed systems, state stores, feedback loops, and rollback concepts. |
| Topic 5 | <ul style="list-style-type: none"> • Related Practices: This section of the exam measures the skills of DevOps Engineers and covers how GitOps relates to broader practices like configuration as code, infrastructure as code, DevOps, and DevSecOps, along with continuous integration and delivery. |

Linux Foundation Certified GitOps Associate Sample Questions (Q60-Q65):

NEW QUESTION # 60

You are implementing GitOps in your organization and have configured the Desired State of your applications in a Git repository. However, during the deployment process, you encounter an error in the configuration. What is the recommended action in this scenario?

- A. Make a call to the Kubernetes API with the correction.
- **B. Roll back the deployment to the previous working version while investigating the error in the configuration file.**
- C. Continue to monitor the issue and proceed with the deployment, as it may not significantly impact the application.
- D. Raise a ticket with the development team to fix the error in the configuration file.

Answer: B

Explanation:

GitOps emphasizes immutability and auditability. If an error occurs in the configuration stored in Git, the system should be rolled back to the last known good state while the error is fixed. This preserves system reliability and aligns with the GitOps principle of rollback through version control.

"With Git as the source of truth, if an error is introduced, the system can be rolled back by reverting to a previous commit. This ensures stability while the faulty configuration is corrected." Thus, the recommended action is C: Roll back to the previous working version.

References: GitOps Principles (CNCf GitOps Working Group).

NEW QUESTION # 61

Which of the following is part of a declaratively defined system?

- A. Only the steps to reach the Desired State.
- **B. Only the Desired State.**
- C. Only the code for reaching the Desired State.
- D. Both the desired state and the steps to reach the Desired State.

Answer: B

Explanation:

In GitOps, systems are defined declaratively. This means that the desired state is described in Git, while the steps to achieve it are not explicitly defined. Instead, reconciliation agents interpret the declarative definition and automatically apply changes as needed.

"A declaratively defined system specifies only the desired state. It does not describe the sequence of steps required to reach that state. The reconciliation process ensures the system converges to the declared state automatically." Therefore, the correct answer is C: Only the Desired State.

References: GitOps Principles (CNCf GitOps Working Group), Principle 1: The system is described declaratively.

NEW QUESTION # 62

A GitOps project wants to leverage both ArgoCD and Flux for a deployment. Can ArgoCD and Flux be used in conjunction?

- A. If you modify their source code, ArgoCD and Flux can only be used together.
- B. ArgoCD and Flux cannot be used together as they are designed for different types of deployments.
- C. ArgoCD and Flux cannot be used together as they have conflicting functionalities.
- **D. ArgoCD and Flux can be used together, leveraging a drop-in extension for ArgoCD, ensuring that both reconciliation**

engines do not conflict.

Answer: D

Explanation:

ArgoCD and Flux are the two primary CNCF GitOps tools. While both are reconciliation engines, they can be used together carefully if configured properly to avoid conflicts. For example, Flux can be used to manage configuration sources, while ArgoCD handles application-level delivery. Extensions and integration points allow them to complement each other.

"ArgoCD and Flux implement the GitOps reconciliation principle. Though they provide overlapping functionality, they can be integrated by carefully managing their scope. For instance, Flux can manage sources and Helm charts, while ArgoCD handles higher-level deployments. Extensions exist to allow cooperation without conflict." Thus, the correct answer is C.

References:GitOps Tooling (CNCF GitOps Working Group).

NEW QUESTION # 63

You are working on a GitOps project and want to trigger a reconcile process before the next scheduled reconciliation. What is the recommended way to do this?

- A. Manually execute a script to initiate the reconcile process on the cluster using GitOps tool CLI commands.
- B. Adjust the reconcile process interval time.
- **C. Use a webhook to trigger the reconcile process based on events or changes in the Git repository.**
- D. Schedule a cron job to run the reconcile process periodically, using RBAC to authenticate.

Answer: C

Explanation:

Although reconciliation is continuous in GitOps, tools often allow reconciliation to be triggered earlier than the normal polling interval. The recommended approach is to use webhooks from the Git repository, which notify the GitOps controller of changes and trigger an immediate reconcile.

"While reconciliation loops continuously compare desired and actual state, reconciliation can be triggered sooner by webhooks from version control events, ensuring timely application of changes." Thus, the correct answer is A.

References:GitOps Principles (CNCF GitOps Working Group), Reconciliation and Webhooks.

NEW QUESTION # 64

Which GitOps tool has the option for a push-based reconciliation model?

- A. Argo Workflows
- B. Flagger
- **C. ArgoCD**
- D. Flux

Answer: C

Explanation:

Most GitOps tools (e.g., Flux) are pull-based only. However, ArgoCD supports both pull-based reconciliation (via continuous monitoring) and an optional push-based model, where changes can be triggered via webhooks or CI pipelines.

"ArgoCD supports both pull-based reconciliation, where the controller watches the repository, and an optional push-based reconciliation mode triggered by webhooks." Thus, the correct answer is A: ArgoCD.

References:GitOps Tooling (CNCF GitOps Working Group), ArgoCD documentation on reconciliation models.

NEW QUESTION # 65

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