

Pass Guaranteed Quiz CGOA - Authoritative New Certified GitOps Associate Practice Questions



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Linux Foundation CGOA Exam Syllabus Topics:

Topic	Details
Topic 1	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.
Topic 2	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 3	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 4	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 5	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.

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Linux Foundation Certified GitOps Associate Sample Questions (Q43-Q48):

NEW QUESTION # 43

In the context of GitOps, which of the following is the primary purpose of Desired State?

- A. For monitoring real-time application performance.
- B. To store all persistent application data, such as database content.
- **C. To serve as a blueprint to recreate a system for behavioral consistency.**
- D. To track code changes that developers have made.

Answer: C

Explanation:

The Desired State in GitOps is the declarative specification of how the system should behave. It is stored in Git and serves as the reference point for reconciliation against the actual state.

"The desired state is a complete specification of the system stored in Git. It acts as the blueprint from which the actual state is continuously reconciled, ensuring the system remains consistent and reproducible." Thus, the primary purpose of Desired State is to act as a blueprint to recreate and ensure consistency of the system.

References: GitOps Terminology (CNCF GitOps Working Group).

NEW QUESTION # 44

You are packaging a complex application to deploy to multiple Kubernetes clusters using GitOps. Which of the following would be a suitable solution for this process?

- **A. Creating a Helm chart to define the application's configuration and dependencies.**
- B. Configuring a CI/CD pipeline to build and deploy the application to the Kubernetes cluster automatically.
- C. Creating a well-formatted script to deploy the application to the Kubernetes cluster.
- D. Writing a Dockerfile to build a container image of the application and configuration.

Answer: A

Explanation:

Helm is a Kubernetes package manager widely used in GitOps for packaging, configuring, and deploying complex applications.

Helm charts bundle configuration, dependencies, and Kubernetes manifests into reusable, declarative packages that can be applied across multiple clusters.

"Helm charts provide a way to package Kubernetes applications, defining configuration and dependencies declaratively. This allows consistent deployment across clusters in GitOps workflows." Thus, the correct answer is A.

References: GitOps Tooling (CNCF GitOps Working Group), Helm usage in GitOps.

NEW QUESTION # 45

In the context of GitOps, what source of truth guides the continuous deployment process?

- **A. Desired State**
- B. Dynamic State
- C. Fleeting State
- D. Current State

Answer: A

Explanation:

The Desired State, stored in Git, is the ultimate source of truth in GitOps. It defines how the system should look and behave. Continuous deployment processes reconcile the actual cluster state against this Desired State.

"In GitOps, the desired state kept in Git is the single source of truth. The reconciler ensures the actual state matches the desired state, guiding the continuous deployment process." Thus, the correct answer is A.

References: GitOps Terminology (CNCF GitOps Working Group).

NEW QUESTION # 46

In a GitOps-managed workflow, what is the correct way to initiate rollback?

- A. Revert to an older version and force push to the main branch.
- B. Overwrite your existing version with the code from your last working version.
- C. Use Helm to rollback to a previous release version.
- **D. Create a new version based on a former version so you always "roll forward".**

Answer: D

Explanation:

In GitOps, rollback is handled via version control. However, the practice is not to overwrite history but to roll forward by creating a new version that reverts to the configuration of a previous known-good commit. This maintains immutability and a complete audit trail.

"With GitOps, changes are versioned immutably. Rollbacks are performed by rolling forward to a commit that represents a previous known-good configuration, ensuring history is preserved." Thus, the correct GitOps approach is B.

References: GitOps Principles (CNCF GitOps Working Group), Rollback and Recovery Practices.

NEW QUESTION # 47

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

Answer: B

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 # 48

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