

2025 CGOA: Certified GitOps Associate–Reliable Latest Exam Tips



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Linux Foundation CGOA Exam Syllabus Topics:

Topic	Details
Topic 1	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 2	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	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	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 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 (Q59-Q64):

NEW QUESTION # 59

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

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

Answer: B

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 # 60

A GitOps-managed Software System includes which of the following?

- A. Operating systems used for hosting the software system.
- **B. One or more runtime environments consisting of resources under management.**
- C. One or more programming languages used for development.
- D. Hardware infrastructure used for hosting the software system.

Answer: B

Explanation:

A GitOps-managed software system is defined as one or more runtime environments whose resources are managed declaratively via GitOps practices.

"A GitOps-managed software system includes one or more runtime environments, such as clusters, where resources are under management. The desired state of these resources is declared in Git and reconciled continuously." Thus, the correct option is B.

References: GitOps Terminology (CNCF GitOps Working Group).

NEW QUESTION # 61

In GitOps, what does the principle of Versioned and Immutable mean?

- A. All changes to configuration and infrastructure should be made directly on production environments.
- B. All software versions should be stored in a Git repository.
- C. Configuration and infrastructure code should be modified directly on production environments.
- **D. Configuration and infrastructure code should be version-controlled and treated as immutable artifacts.**

Answer: D

Explanation:

One of the four fundamental GitOps principles is Versioned and Immutable. This means that the entire system's desired state must be stored in a Git repository with version control. Each change must be represented as a commit, and Git's immutability guarantees a reliable, auditable history of how the system evolved.

"The desired state is stored in a version control system. The record of truth is stored in an immutable history, and changes can be audited and reverted if necessary. This guarantees that the system's configuration is versioned, immutable, and traceable."

Thus, configuration and infrastructure must be version-controlled and immutable, never changed directly in production.

References: GitOps Principles (CNCF GitOps Working Group), Principle 2: The desired system state is stored as versioned and immutable.

NEW QUESTION # 62

Can you choose one example where Configuration as Code may be utilized to manage an application's configuration and source code?

- A. Using a Helm chart to define and manage the configuration and container image of a web application deployed on Kubernetes.
- B. Using a spreadsheet to manually update and manage the configuration and source code of a mobile application.
- C. Using a manual process of editing configuration files and manually syncing the source code of a monolithic application.
- D. Using a GUI-based configuration tool to visually configure and manage the source code of a microservices architecture.

Answer: A

Explanation:

Configuration as Code is a GitOps-related practice where configurations are stored as declarative definitions in version control. Helm charts, for example, allow applications deployed on Kubernetes to have both their container images and configuration specified declaratively.

"Configuration as Code enables teams to manage application and infrastructure configuration in version control systems, using declarative approaches such as Kubernetes manifests or Helm charts. This ensures repeatability, automation, and auditability." Thus, Helm charts are a prime example of this practice, making C correct.

References: GitOps Related Practices (CNCF GitOps Working Group), Configuration as Code.

NEW QUESTION # 63

In the context of GitOps, what is the purpose of a State Store?

- A. To provide a system for storing temporary state data during GitOps deployments.
- B. To provide a system for storing the current state of an application.
- C. To provide a system for storing mutable versions of Desired State declarations.
- D. To provide a system for storing immutable versions of Desired State declarations.

Answer: D

Explanation:

A State Store in GitOps is the system of record where Desired State declarations are kept. It must be immutable and versioned to ensure full auditability, traceability, and rollback capabilities. Git itself is the most common State Store.

"The Desired State must be stored in a State Store that is versioned and immutable. This guarantees traceability and enables recovery by reverting to previous commits." Thus, the correct answer is D.

References: GitOps Terminology (CNCF GitOps Working Group).

NEW QUESTION # 64

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