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Linux Foundation CGOA Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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 3	<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.
Topic 4	<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 5	<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.

Linux Foundation Certified GitOps Associate Sample Questions (Q15-Q20):

NEW QUESTION # 15

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

- A. ArgoCD and Flux can be used together, leveraging a drop-in extension for ArgoCD, ensuring that both reconciliation engines do not conflict.
- 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. If you modify their source code, ArgoCD and Flux can only be used together.

Answer: A

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 # 16

Which of the following statements best describes the relationship between DevOps and GitOps?

- A. DevOps and GitOps are two completely separate concepts with no relation to each other.
- B. DevOps and GitOps are interchangeable terms used to describe the same concept and principles.
- C. GitOps is a set of principles to guide modern DevOps in practice.
- D. DevOps and GitOps are competing methodologies, and organizations must choose one over the other.

Answer: C

Explanation:

GitOps is not a replacement for DevOps. Instead, it is an evolution and practical implementation of DevOps principles, using Git as the single source of truth and continuous reconciliation as the operational model.

"GitOps builds on the foundation of DevOps by providing a framework to put its principles into practice. It leverages Git and declarative reconciliation to realize DevOps goals." Thus, the best description of the relationship is B.
References: GitOps Related Practices (CNCF GitOps Working Group).

NEW QUESTION # 17

In the context of GitOps, what does Continuous mean?

- A. Reconciliation must happen instantaneously.
- B. Reconciliation only happens once.
- C. Reconciliation continues to happen.
- D. Reconciliation happens only during instantiation.

Answer: C

Explanation:

One of the four core GitOps principles is that the system must be Continuously Reconciled. This means reconciliation is not a one-time or on-demand process but happens constantly in the background, ensuring the actual system state remains aligned with the declared desired state.

"GitOps requires that reconciliation is continuous. Software agents continuously compare actual state against desired state and automatically reconcile differences." Thus, the correct answer is C.

References: GitOps Principles (CNCF GitOps Working Group), Principle 4: Continuously reconciled.

NEW QUESTION # 18

How do you ensure that you are achieving the Pulled Automatically GitOps principle?

- A. By deploying changes from the version control repository by applying them through an automated pipeline when major updates are needed.
- B. By maintaining multiple Git repositories for different aspects of your infrastructure and applications.
- C. By having an operator continuously monitor and pull changes from the source of truth.
- D. By manually triggering deployments and configurations using scripts and commands.

Answer: C

Explanation:

The Pulled Automatically principle in GitOps means that agents inside the runtime environment (e.g., controllers/operators) continuously monitor Git (the source of truth) and automatically pull changes when updates are detected.

"Software agents continuously pull changes from the version control system and reconcile them automatically. This pull-based approach ensures automation, security, and self-healing." Thus, the correct answer is B.

References: GitOps Principles (CNCF GitOps Working Group), Principle 4: Continuously reconciled and pulled automatically.

NEW QUESTION # 19

You are working on a GitOps project and want to ensure that the configuration files are written in a standardized format. What is the recommended way to ensure this?

- A. Manually review each configuration file to check for any formatting issues.
- B. Ask team members to manually review each other's configuration files for formatting issues.
- C. Ignore the formatting issues and focus on the functionality of the configuration files.
- D. Use a linter tool to automatically check the configuration files for formatting issues.

Answer: D

Explanation:

Linting tools are essential in GitOps practices for maintaining consistency, standardization, and quality in configuration files.

Automated linters can validate YAML manifests, Helm charts, or Kustomize overlays for formatting and best practices.

"Linters automate the enforcement of formatting and quality rules in declarative configuration files. They ensure standardized structure and reduce errors in GitOps workflows." Thus, the correct answer is C.

References: GitOps Related Practices (CNCF GitOps Working Group).

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