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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	• 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 5	• 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.

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Linux Foundation Certified GitOps Associate Sample Questions (Q51-Q56):

NEW QUESTION # 51
How does GitOps handle drift during reconciliation?

- A. Find the differences between Desired State and actual state and create a new system based on these changes.
- B. Write back to Desired State to match the actual state.
- C. Write Kubernetes Patch files in a database for later use.
- D. Attempt to apply Desired State to the running system.

Answer: D

Explanation:
When drift occurs (actual state diverges from desired state), GitOps controllers attempt to reapply the Desired State stored in Git. The system is always converged toward what Git declares, never the other way around.
"In case of drift, the reconciler re-applies the desired state from Git to the runtime environment, ensuring the actual system matches the declared configuration." Thus, the correct answer is B.
References: GitOps Principles (CNCF GitOps Working Group), Drift Management.

NEW QUESTION # 52
Which requirement of the GitOps principle declares that Desired State must be versioned?

- A. The Desired State must be publicly accessible.
- B. The State Store must retain a complete version history.
- C. The Desired State must not be publicly accessible.
- D. You must use Git in order to be compliant with this principle.

Answer: B

Explanation:
One of the GitOps principles is Versioned and Immutable, which requires that the Desired State is stored in a system that maintains a complete version history. This allows for auditing, traceability, and rollback.
"The Desired State must be stored in a versioned, immutable system. The State Store must retain a complete version history so changes can be audited and previous states can be restored." Thus, the correct answer is B.
References: GitOps Principles (CNCF GitOps Working Group), Principle 2: Versioned and Immutable.

NEW QUESTION # 53
You are working on a GitOps project and need to understand the similarities and differences between pull- based messaging systems and event-driven systems. What is a key difference between these two types of systems?

- A. Pull-based systems require a constant network connection to receive updates.
- B. Pull-based systems are more efficient in handling real-time events.
- C. When only events trigger reconciliation, the system is more vulnerable to drift caused by other things.
- D. Event-driven systems are less flexible and scalable compared to pull-based systems.

Answer: C

Explanation:

In GitOps, the pull-based model continuously reconciles the actual state with the desired state. This makes it resilient to drift, since reconciliation runs regularly. In contrast, event-driven systems only reconcile when an event occurs (e.g., a webhook), which makes them more prone to drift if changes happen outside those events.

"A pull-based reconciliation loop ensures continuous alignment with the desired state. Event-driven reconciliation, triggered only on events, risks system drift if changes occur outside those triggers." Thus, the correct answer is D.

References: GitOps Related Practices (CNCF GitOps Working Group), Reconciliation Models.

NEW QUESTION # 54

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 cannot be used together as they are designed for different types of deployments.
- B. If you modify their source code, ArgoCD and Flux can only be used together.
- 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 # 55

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

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

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 # 56

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