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Linux Foundation CGOA Exam Syllabus Topics:

Topic	Details
Topic 1	<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 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">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 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">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.

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Linux Foundation Certified GitOps Associate Sample Questions (Q33-Q38):

NEW QUESTION # 33

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

Answer: B

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 # 34

You want to route alerts from Prometheus to Slack in your GitOps workflow. Which tool can you use to achieve this?

- A. Prometheus
- B. Alertmanager
- C. Jenkins X
- D. Slack

Answer: B

Explanation:

Prometheus is commonly used in GitOps for monitoring. Alertmanager is the tool integrated with Prometheus to handle alert routing. It supports sending alerts to external systems such as Slack, PagerDuty, or email.

"Prometheus generates alerts, which are routed and managed by Alertmanager. Alertmanager can integrate with messaging tools like Slack to deliver alerts in real time." Thus, the correct answer is A: Alertmanager.

References: GitOps Tooling (CNCF GitOps Working Group), Monitoring and Alerting practices.

NEW QUESTION # 35

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

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

Answer: A

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 # 36

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 immutable versions of Desired State declarations.
- C. To provide a system for storing the current state of an application.
- D. To provide a system for storing mutable versions of Desired State declarations.

Answer: B

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 # 37

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

Answer: D

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 # 38

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