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Linux Foundation CGOA Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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 3	<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 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"> • 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 (Q20-Q25):

NEW QUESTION # 20

Why is the feedback loop important for reconciliation?

- A. To determine if a reconciliation is needed and whether a sync should be partial or complete.
- B. To analyze state-sync logging information and perform a sync.
- C. To trigger an alert if a change is detected, and log the event to the log aggregation service.
- D. Feedback loop is not important for reconciliation.

Answer: A

Explanation:

The feedback loop is critical in GitOps reconciliation. It continuously monitors the system's actual state and compares it to the desired state. This loop determines when reconciliation is required and whether a full or partial synchronization is necessary.

"The feedback loop in reconciliation continuously observes the actual state. It determines if reconciliation is required, and informs whether to perform a partial or full sync to align with the declared desired state." Thus, the correct answer is A.

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

NEW QUESTION # 21

In GitOps, which option describes State Store management?

- A. Storing state information in a centralized database.
- B. Storing state information in a version control system.
- C. Storing state information in a relational database.
- D. Storing state information in a distributed file system.

Answer: B

Explanation:

The State Store is typically implemented using a version control system (VCS) such as Git. This ensures that the system's state is auditable, versioned, and immutable. Other systems like databases or distributed file systems do not meet the immutability and versioning requirements of GitOps.

"In GitOps, the desired state must be stored in a version control system. This serves as the State Store, providing a complete, immutable, and auditable history of changes." Thus, the correct answer is D: version control system.

References: GitOps Terminology (CNCF GitOps Working Group).

NEW QUESTION # 22

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

- A. To provide a system for storing mutable versions of Desired State declarations.

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

Answer: C

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 # 23

What is one of the key benefits of a pull-based reconciliation approach to configuration management?

- **A. Agents can access the Desired State at any time, not only when an event is triggered.**
- B. The CI has access credentials to the running system.
- C. Immediate response time to configuration changes.
- D. Simplified troubleshooting and debugging processes.

Answer: A

Explanation:

In GitOps, the pull-based reconciliation approach means that agents continuously monitor the Desired State in Git. Unlike push-based systems, which only act when triggered, pull-based systems can reconcile at any time, providing resilience, self-healing, and security (since no external system needs direct access to the cluster).

"In a pull-based model, reconciliation agents continuously fetch and compare the desired state, enabling self-healing and ensuring the desired configuration is accessible at all times." Thus, the correct answer is B.

References: GitOps Principles (CNCF GitOps Working Group), Pull vs. Push reconciliation models.

NEW QUESTION # 24

Which of these Git commands will enact a rollback of the configuration to a previous commit?

- **A. git revert**
- B. git push
- C. git branch
- D. git commit

Answer: A

Explanation:

In GitOps, rollback is performed by reverting the system's Desired State stored in Git. This is done with the `git revert` command, which creates a new commit that undoes the changes introduced by a previous commit.

"Because Git provides an immutable history of changes, rollbacks are straightforward. Reverting to a previous configuration is accomplished by reverting the commit in Git, which then allows the reconciler to apply the earlier desired state." Thus, the correct answer is B: `git revert`.

References: GitOps Tooling (CNCF GitOps Working Group).

NEW QUESTION # 25

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