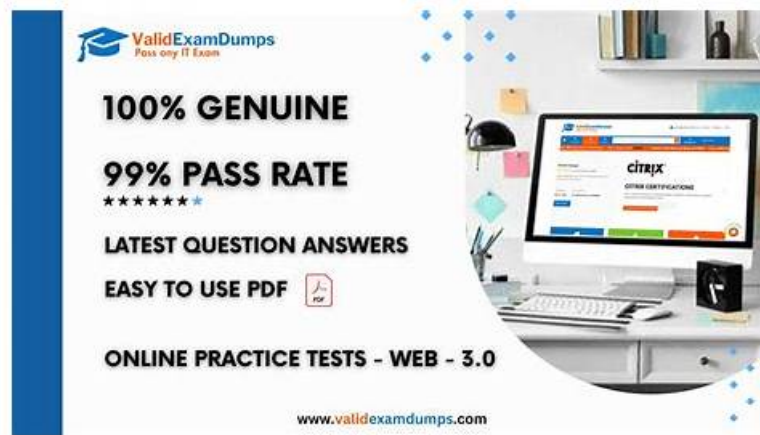


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Linux Foundation CGOA Exam Syllabus Topics:

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">• 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 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 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">• 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.

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Linux Foundation Certified GitOps Associate Sample Questions (Q20-Q25):

NEW QUESTION # 20

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. 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 cannot be used together as they are designed for different types of deployments.

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 # 21

In GitOps, which option describes State Store management?

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

Answer: D

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 a GitOps-managed workflow, what is the correct way to initiate rollback?

- A. Use Helm to rollback to a previous release version.
- **B. Create a new version based on a former version so you always "roll forward".**
- C. Overwrite your existing version with the code from your last working version.
- D. Revert to an older version and force push to the main branch.

Answer: B

Explanation:

In GitOps, rollback is handled via version control. However, the practice is not to overwrite history but to roll forward by creating a new version that reverts to the configuration of a previous known-good commit. This maintains immutability and a complete audit trail.

"With GitOps, changes are versioned immutably. Rollbacks are performed by rolling forward to a commit that represents a previous

known-good configuration, ensuring history is preserved." Thus, the correct GitOps approach is B.
References: GitOps Principles (CNCF GitOps Working Group), Rollback and Recovery Practices.

NEW QUESTION # 23

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

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

Answer: B

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 # 24

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. Feedback loop is not important for reconciliation.
- D. To trigger an alert if a change is detected, and log the event to the log aggregation service.

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 # 25

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