

Quiz 2026 Linux Foundation CGOA: Certified GitOps Associate Useful Valid Cram Materials



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Linux Foundation CGOA Exam Syllabus Topics:

Topic	Details
Topic 1	<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 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">• 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	<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 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.

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Linux Foundation Certified GitOps Associate Sample Questions (Q28-Q33):

NEW QUESTION # 28

You are working on a GitOps project and have made some changes to the cluster using kubectl. What is the recommended approach to ensure that your changes are continuously reconciled?

- A. Use kubectl to delete all resources that were changed in the cluster and wait for a reconcile.
- **B. Save those changes to the Desired State store and allow the GitOps controller to attempt reconciliation.**
- C. Delete and recreate the cluster from scratch to ensure a clean and controlled state.
- D. Reconcile the changes by running a script or command that synchronizes the cluster with the desired state.

Answer: B

Explanation:

In GitOps, Git is the single source of truth. If changes are made manually in the cluster (via kubectl), those changes will drift from the desired state in Git. To ensure consistency, the correct approach is to update the Git repository (Desired State store) so that the reconciler can continuously apply and maintain those changes.

"The desired state must always be declared in Git. Manual changes in the cluster will be overwritten by reconciliation unless they are committed to the Git repository." Thus, the correct answer is B.

References: GitOps Principles (CNCF GitOps Working Group), Drift and Reconciliation Practices.

NEW QUESTION # 29

You are working on a GitOps project and want to trigger a reconcile process before the next scheduled reconciliation. What is the recommended way to do this?

- A. Schedule a cron job to run the reconcile process periodically, using RBAC to authenticate.
- B. Manually execute a script to initiate the reconcile process on the cluster using GitOps tool CLI commands.
- **C. Use a webhook to trigger the reconcile process based on events or changes in the Git repository.**
- D. Adjust the reconcile process interval time.

Answer: C

Explanation:

Although reconciliation is continuous in GitOps, tools often allow reconciliation to be triggered earlier than the normal polling interval. The recommended approach is to use webhooks from the Git repository, which notify the GitOps controller of changes and trigger an immediate reconcile.

"While reconciliation loops continuously compare desired and actual state, reconciliation can be triggered sooner by webhooks from version control events, ensuring timely application of changes." Thus, the correct answer is A.

References: GitOps Principles (CNCF GitOps Working Group), Reconciliation and Webhooks.

NEW QUESTION # 30

How does GitOps handle drift during reconciliation?

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

Answer: A

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 # 31

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

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 # 32

When deciding whether to use an in-cluster reconciler or an external reconciler, what factors should be considered?

- **A. The size of the cluster and the complexity of the reconciler logic.**
- B. The programming language the applications are written in.
- C. The location of the state store and the number of replicas.
- D. The version of Kubernetes and the availability of network resources.

Answer: A

Explanation:

In GitOps, reconcilers ensure the actual state matches the desired state. Reconcilers may run inside the cluster (in-cluster) or outside (external). The choice depends primarily on operational scale and the complexity of reconciliation logic.

"When determining reconciler placement, factors such as the size of the environment, the operational complexity of the reconciler, and the performance requirements should be evaluated. In-cluster reconcilers are common for straightforward deployments, while external reconcilers may be chosen for large-scale or complex systems." Thus, the most important considerations are cluster size and complexity of reconciler logic, making B correct.

References: GitOps Related Practices (CNCF GitOps Working Group), GitOps Reconciler Guidelines.

NEW QUESTION # 33

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