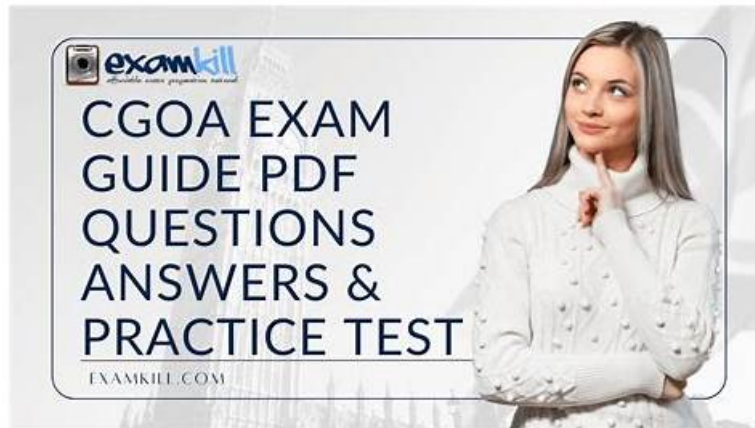


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### Linux Foundation CGOA Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>• 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.</li></ul>
Topic 2	<ul style="list-style-type: none"><li>• 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.</li></ul>
Topic 3	<ul style="list-style-type: none"><li>• 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.</li></ul>

Topic 4	<ul style="list-style-type: none"> <li>• <b>Related Practices:</b> 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.</li> </ul>
Topic 5	<ul style="list-style-type: none"> <li>• <b>GitOps Terminology:</b> 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.</li> </ul>

## Linux Foundation Certified GitOps Associate Sample Questions (Q27-Q32):

### NEW QUESTION # 27

In the context of GitOps, what does Desired State refer to?

- A. The state that the system or application will be in after all changes are made.
- B. The state that the system or application was in before any changes were made.
- **C. The state that the system or application should be in.**
- D. The current state of the system or application.

**Answer: C**

Explanation:

The Desired State is the declarative specification stored in Git that defines how the system should look and behave. It is the reference point against which the actual state is continuously reconciled.

"Desired state is the complete declarative specification of a system stored in Git. It defines how the system should be configured and serves as the source of truth for reconciliation." Thus, the correct answer is A.

References: GitOps Terminology (CNCF GitOps Working Group).

### NEW QUESTION # 28

In the context of GitOps, why would you do a rollback?

- A. To create a backup of the current configuration.
- **B. To undo a deployment that introduced a critical bug or caused a system failure.**
- C. To improve performance and optimize resource utilization.
- D. To test a new feature in a controlled environment.

**Answer: B**

Explanation:

In GitOps, rollback is the process of reverting to a previous known-good configuration stored in Git. This is typically done when a deployment introduces a bug, error, or failure that impacts system stability.

"Rollback in GitOps is used to revert to a previous commit representing a stable configuration when the current deployment causes errors or failures." Thus, the correct answer is A.

References: GitOps Principles (CNCF GitOps Working Group), Rollback and Recovery.

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

**Answer: D**

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

A GitOps-managed Software System includes which of the following?

- A. Hardware infrastructure used for hosting the software system
- B. One or more programming languages used for development.
- C. Operating systems used for hosting the software system
- **D. One or more runtime environments consisting of resources under management.**

**Answer: D**

Explanation:

A GitOps-managed software system is defined as one or more runtime environments whose resources are managed declaratively via GitOps practices.

"A GitOps-managed software system includes one or more runtime environments, such as clusters, where resources are under management. The desired state of these resources is declared in Git and reconciled continuously." Thus, the correct option is B.

References: GitOps Terminology (CNCF GitOps Working Group).

### NEW QUESTION # 31

Which of the following is an example of an external reconciler?

- A. Helm
- **B. Flux**
- C. KubeFlow
- D. Kustomize

**Answer: B**

Explanation:

An external reconciler ensures that the actual system matches the desired state declared in Git. External reconcilers run outside the core cluster orchestration process. Flux is a widely used GitOps external reconciler that continuously syncs cluster state with the repository.

"Flux is an example of a GitOps reconciler that continuously monitors Git repositories and applies changes to the cluster. As an external reconciler, it handles synchronization and reconciliation loops outside the direct application code." Thus, A: Flux is correct.

References: GitOps Tooling (CNCF GitOps Working Group).

### NEW QUESTION # 32

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