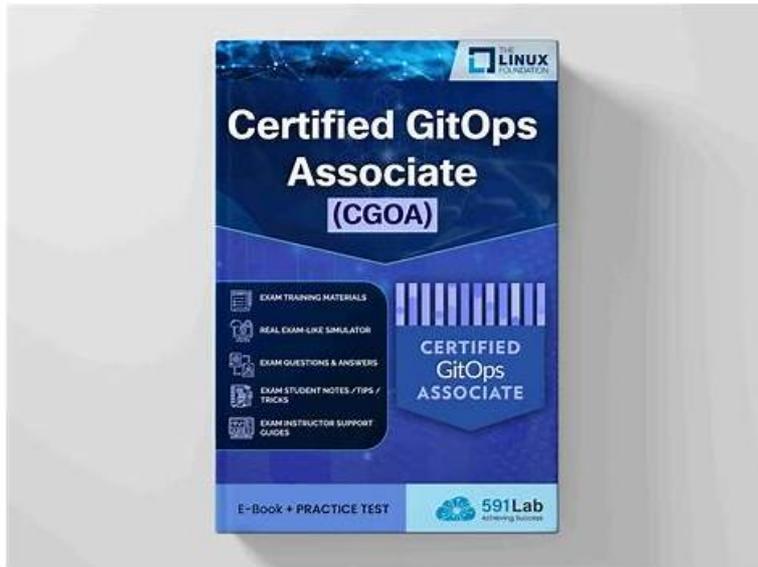


# CGOA - Certified GitOps Associate—High-quality Related Exams



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### Linux Foundation CGOA Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> <li>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.</li> </ul>
Topic 2	<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 3	<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 4	<ul style="list-style-type: none"> <li>• <b>GitOps Principles:</b> 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 5	<ul style="list-style-type: none"> <li>• <b>Tooling:</b> 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>

## Linux Foundation Certified GitOps Associate Sample Questions (Q39-Q44):

### NEW QUESTION # 39

You are working on a GitOps project and want to ensure that the configuration files are written in a standardized format. What is the recommended way to ensure this?

- A. Manually review each configuration file to check for any formatting issues.
- **B. Use a linter tool to automatically check the configuration files for formatting issues.**
- C. Ask team members to manually review each other's configuration files for formatting issues.
- D. Ignore the formatting issues and focus on the functionality of the configuration files.

**Answer: B**

Explanation:

Linting tools are essential in GitOps practices for maintaining consistency, standardization, and quality in configuration files.

Automated linters can validate YAML manifests, Helm charts, or Kustomize overlays for formatting and best practices.

"Linters automate the enforcement of formatting and quality rules in declarative configuration files. They ensure standardized structure and reduce errors in GitOps workflows." Thus, the correct answer is C.

References: GitOps Related Practices (CNCF GitOps Working Group).

### NEW QUESTION # 40

In the context of GitOps, what does Continuous mean?

- A. Reconciliation must happen instantaneously.
- B. Reconciliation happens only during instantiation.
- C. Reconciliation only happens once.
- **D. Reconciliation continues to happen.**

**Answer: D**

Explanation:

One of the four core GitOps principles is that the system must be Continuously Reconciled. This means reconciliation is not a one-time or on-demand process but happens constantly in the background, ensuring the actual system state remains aligned with the declared desired state.

"GitOps requires that reconciliation is continuous. Software agents continuously compare actual state against desired state and automatically reconcile differences." Thus, the correct answer is C.

References: GitOps Principles (CNCF GitOps Working Group), Principle 4: Continuously reconciled.

### NEW QUESTION # 41

When using Kustomize, how are resources, configurations, and customizations commonly organized?

- A. In separate configuration files for each resource.
- **B. Using a combination of folder directories and referenced folder/file paths.**

- C. In a single configuration file.
- D. By specifying all resources inline in the customization file.

**Answer: B**

Explanation:

Kustomize is a GitOps tool for managing Kubernetes configurations declaratively. It uses a folder structure with configuration files and a `kustomization.yaml` file that references resources and overlays. This enables customization without modifying the base manifests. "Kustomize allows customization of Kubernetes manifests by organizing resources in directories and referencing them through file paths in a kustomization file. This directory-based approach supports overlays, reusability, and modular configuration." Thus, the correct answer is D.

References: GitOps Tooling (CNCF GitOps Working Group), Kustomize practices.

#### NEW QUESTION # 42

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

- A. To improve performance and optimize resource utilization.
- **B. To undo a deployment that introduced a critical bug or caused a system failure.**
- C. To create a backup of the current configuration.
- 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 # 43

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 location of the state store and the number of replicas.
- C. The programming language the applications are written in.
- 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 # 44

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