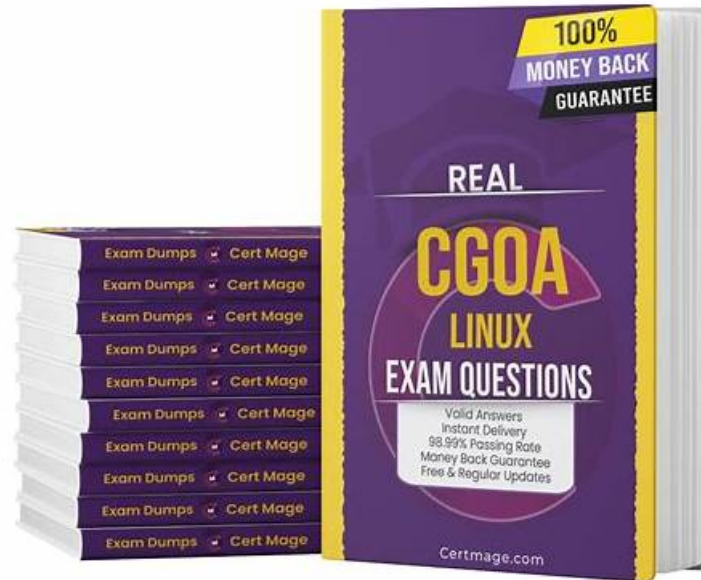


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## Linux Foundation CGOA Exam Syllabus Topics:

Topic	Details
Topic 1	<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>
Topic 2	<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 3	<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 4	<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>

Topic 5	<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>
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## Quiz Linux Foundation - CGOA - Certified GitOps Associate –Professional Authentic Exam Hub

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### Linux Foundation Certified GitOps Associate Sample Questions (Q42-Q47):

#### NEW QUESTION # 42

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

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

**Answer: D**

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 # 43

In the context of GitOps, what happens to a GitOps-managed Kubernetes cluster if there is drift divergence?

- A. The GitOps-managed Kubernetes cluster notifies the administrator about the drift divergence and waits for manual intervention.
- B. The GitOps-managed Kubernetes cluster ignores the drift divergence and continues to operate as it is.
- C. The GitOps-managed Kubernetes cluster rolls back to the previous known state before the drift divergence occurred.
- **D. The GitOps-managed Kubernetes cluster automatically reconciles the drift divergence to return the cluster to the Desired State.**

**Answer: D**

Explanation:

A GitOps-managed Kubernetes cluster uses reconciliation loops to continuously compare the actual state of the system with the desired state declared in Git. When drift (divergence between declared configuration and live cluster state) is detected, the GitOps operator automatically reconciles the difference to bring the system back into alignment.

"In GitOps, a reconciliation loop ensures that the desired state as declared in Git is continuously compared with the observed state of the system. If drift is detected, the system automatically takes corrective action to reconcile the difference and restore the declared configuration." This ensures consistency, reliability, and self-healing. Manual intervention is not required for drift correction, as the automated reconciliation is a core principle of GitOps.

References: GitOps Principles (CNCF GitOps Working Group), GitOps Principles Document -Principle 4:

Software agents automatically pull the desired state declarations from the source and continuously observe actual system state, reconciling differences.

#### NEW QUESTION # 44

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. Save those changes to the Desired State store and allow the GitOps controller to attempt reconciliation.
- B. Use kubectl to delete all resources that were changed in the cluster and wait for a reconcile.
- 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: A**

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 # 45

Which of the following best describes the role of Git as the "single source of truth" in GitOps?

- A. Git is optional in GitOps; any version control system or manual configuration management can serve the same purpose.
- B. Git acts as the sole system of record for both infrastructure and application declarative configurations.
- C. Git stores only application source code, while deployment configurations are managed elsewhere.
- D. Git is primarily used for versioning, but runtime configurations are excluded from GitOps workflows.

**Answer: B**

Explanation:

The core foundation of GitOps is that Git serves as the single source of truth for the desired state of both applications and infrastructure. This means all configuration is declared in Git in a version-controlled, auditable, and verifiable manner. Operators and reconciliation agents continuously pull these definitions to ensure the live system matches what Git declares.

"Declarative descriptions of the desired state of the system must be versioned in Git, making Git the single source of truth. This provides auditability, reliability, and enables rollbacks by reverting changes in Git." This principle ensures that any change in system state is traceable through Git commits, making environments predictable, reproducible, and transparent.

References: GitOps Principles (CNCF GitOps Working Group), Principle 1: The desired system state is declarative and versioned in Git repositories.

#### NEW QUESTION # 46

You are deploying a new version of your application using the Blue-Green deployment pattern. What is a characteristic of the Blue-Green deployment pattern?

- A. The Blue-Green deployment pattern only deploys single versions of the application.
- B. Both the new and old versions of the application are deployed simultaneously.
- C. The new version of the application is deployed first, followed by the old version.
- D. The old version of the application is deployed first, followed by the new version.

**Answer: B**

Explanation:

In a Blue-Green deployment, two environments (Blue and Green) exist at the same time. The current version runs in one environment (Blue), and the new version is deployed to the other environment (Green). Traffic is switched to Green once the new version is validated.

"Blue-Green deployments maintain two production environments. The new version is deployed alongside the old version, and once

validated, traffic is switched from Blue to Green." Thus, the correct answer is C.  
References: GitOps Patterns (CNCF GitOps Working Group), Progressive Delivery.

## NEW QUESTION # 47

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