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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>• 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.</li></ul>
Topic 3	<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 4	<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 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>

## Linux Foundation Certified GitOps Associate Sample Questions (Q31-Q36):

### NEW QUESTION # 31

Which requirement of the GitOps principle declares that Desired State must be versioned?

- A. The Desired State must not be publicly accessible.
- B. The Desired State must be publicly accessible.
- C. You must use Git in order to be compliant with this principle.
- **D. The State Store must retain a complete version history.**

**Answer: D**

Explanation:

One of the GitOps principles is Versioned and Immutable, which requires that the Desired State is stored in a system that maintains a complete version history. This allows for auditing, traceability, and rollback.

"The Desired State must be stored in a versioned, immutable system. The State Store must retain a complete version history so changes can be audited and previous states can be restored." Thus, the correct answer is B.

References: GitOps Principles (CNCF GitOps Working Group), Principle 2: Versioned and Immutable.

### NEW QUESTION # 32

In GitOps, which option describes State Store management?

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

**Answer: B**

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 # 33

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

**Answer: C**

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 # 34

Which of the following statements best describes the relationship between DevOps and GitOps?

- A. DevOps and GitOps are two completely separate concepts with no relation to each other.
- B. DevOps and GitOps are competing methodologies, and organizations must choose one over the other.
- C. GitOps is a set of principles to guide modern DevOps in practice.
- D. DevOps and GitOps are interchangeable terms used to describe the same concept and principles.

Answer: C

Explanation:

GitOps is not a replacement for DevOps. Instead, it is an evolution and practical implementation of DevOps principles, using Git as the single source of truth and continuous reconciliation as the operational model.

"GitOps builds on the foundation of DevOps by providing a framework to put its principles into practice. It leverages Git and declarative reconciliation to realize DevOps goals." Thus, the best description of the relationship is B.

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

#### NEW QUESTION # 35

In the context of GitOps, what is the purpose of a State Store?

- A. To provide a system for storing temporary state data during GitOps deployments.
- B. To provide a system for storing mutable versions of Desired State declarations.
- C. To provide a system for storing the current state of an application.
- D. To provide a system for storing immutable versions of Desired State declarations.

Answer: D

Explanation:

A State Store in GitOps is the system of record where Desired State declarations are kept. It must be immutable and versioned to ensure full auditability, traceability, and rollback capabilities. Git itself is the most common State Store.

"The Desired State must be stored in a State Store that is versioned and immutable. This guarantees traceability and enables recovery by reverting to previous commits." Thus, the correct answer is D.

References: GitOps Terminology (CNCF GitOps Working Group).

#### NEW QUESTION # 36

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