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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>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 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>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 5	<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>

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### Linux Foundation Certified GitOps Associate Sample Questions (Q61-Q66):

#### NEW QUESTION # 61

In GitOps, how is the Desired State stored?

- A. In a way that enforces mutability and versioning.
- B. In a way that retains only the latest version.
- **C. In a way that enforces immutability and versioning.**
- D. In a way that permits direct modifications to live systems.

**Answer: C**

Explanation:

The GitOps principle of Versioned and Immutability requires Desired State to be stored in a way that enforces immutability and versioning. This ensures every change is recorded, auditable, and reversible.

"Desired state must be kept in an immutable, version-controlled system. This guarantees a full history of changes and enables safe rollbacks." Thus, the correct answer is D.

References: GitOps Principles (CNCF GitOps Working Group).

#### NEW QUESTION # 62

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

- A. By specifying all resources inline in the customization file.
- B. In a single configuration file.
- **C. Using a combination of folder directories and referenced folder/file paths.**
- D. In separate configuration files for each resource.

**Answer: C**

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 # 63

Which of the following statements accurately describes the role of GitOps in progressive delivery?

- A. GitOps requires end users to manually shift traffic for progressive delivery.
- **B. GitOps allows end users to perform progressive delivery automatically without manually shifting traffic.**
- C. GitOps only works with manual progressive delivery without any automation.
- D. GitOps does not allow end users to perform progressive delivery automatically, only manually.

**Answer: B**

#### Explanation:

Progressive delivery is a GitOps pattern that incrementally rolls out application updates, using methods like canary releases, feature flags, and blue-green deployments. GitOps enhances this by ensuring the rollout is automated and declaratively managed through Git, removing the need for manual traffic switching.

"GitOps enables progressive delivery by declaratively managing rollout strategies such as canary or blue-green deployments. These strategies are applied automatically by controllers, without requiring manual traffic switching." Thus, the correct answer is B.

References: GitOps Patterns (CNCF GitOps Working Group), Progressive Delivery practices.

#### NEW QUESTION # 64

In the context of GitOps, what is one example of how DevSecOps principles manifested, enhancing the traditional DevOps lifecycle?

- A. In GitOps, DevSecOps leads to the segregation of security tasks, assigning them exclusively to security teams.
- B. GitOps uses DevSecOps to enforce manual security checks at each deployment stage.
- **C. GitOps enhances the DevSecOps experience by detecting security policy drift.**
- D. DevSecOps in GitOps focuses primarily on post-deployment security audits.

#### Answer: C

#### Explanation:

In GitOps, DevSecOps integrates security into the GitOps workflow by treating security policies as code and storing them in Git. This enables automatic detection of security policy drift and ensures that any misconfiguration or violation is reconciled, just like application and infrastructure code.

"GitOps applies DevSecOps by managing security policies as code. This enables detection of drift in security configurations, ensuring environments remain compliant and secure." Thus, the correct answer is A.

References: GitOps Related Practices (CNCF GitOps Working Group), DevSecOps integration.

#### NEW QUESTION # 65

In GitOps, what does it mean to Continuously Reconcile?

- A. Perform regular backups of Git repositories.
- **B. Automatically compare and adjust the system state as needed.**
- C. Regularly update Git repositories with the latest changes from external sources.
- D. Monitor the system for any unauthorized changes and revert them.

#### Answer: B

#### Explanation:

Continuous reconciliation is another core GitOps principle. It means that software agents (operators or controllers) run loops that continuously observe the live system and compare it against the desired state declared in Git. If any divergence (drift) is found, the agent automatically reconciles the system to match the declared configuration.

"Software agents continuously observe the actual system state and compare it with the desired state declared in Git. If a divergence is detected, the agents automatically reconcile the difference to bring the system back into alignment." This provides automation, consistency, and self-healing, which are hallmarks of GitOps.

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

#### NEW QUESTION # 66

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