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Linux Foundation CGOA Exam Syllabus Topics:

Topic	Details
Topic 1	• 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.
Topic 2	• 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.
Topic 3	• 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.
Topic 4	• 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.
Topic 5	• 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.

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Linux Foundation Certified GitOps Associate Sample Questions (Q38-Q43):

NEW QUESTION # 38
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 does not allow end users to perform progressive delivery automatically, only manually.
- D. GitOps only works with manual progressive delivery without any automation.

Answer: B

Explanation:
Progressive deliveryis 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 isautomated 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 isB.
References:GitOps Patterns (CNCF GitOps Working Group), Progressive Delivery practices.

NEW QUESTION # 39
What is an example of how GitOps helps DevSecOps?

- A. The entire version history of Desired State changes is available for auditing.
- B. Store all access tokens in Git.
- C. Unit testing during CD limits the bugs introduced into deployed code.
- D. You must sign into your GitHub account before running kubectl commands.

Answer: A

Explanation:
GitOps enhancesDevSecOpsby ensuring security-related configurations and changes are stored in version control, where acomplete audit historyis available. This provides traceability, accountability, and compliance enforcement.
"With GitOps, the entire version history of desired state changes is stored immutably in Git. This audit trail supports security and compliance goals in DevSecOps practices." Thus, the correct answer isB.
References:GitOps Related Practices (CNCF GitOps Working Group), DevSecOps Integration.

NEW QUESTION # 40
Manual updates are common causes of what?

- A. Changes in actual state leading to variance.
- B. Changes in Desired State leading to drift.
- C. Changes in actual state leading to drift.
- D. Changes in Desired State leading to failure.

Answer: C

Explanation:
In GitOps, thedesired stateis stored in Git. Manual updates applied directly to the cluster (via kubectl or APIs) change theactual

statewithout updating Git. This introducesdriftbetween actual and desired state.
"Manual changes to the runtime environment cause the actual state to diverge from the desired state stored in Git. This drift must be detected and reconciled automatically." Thus, the correct answer isC.
References:GitOps Principles (CNCF GitOps Working Group), Drift and Reconciliation.

NEW QUESTION # 41

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

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

Answer: D

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

NEW QUESTION # 42

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

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

Answer: D

Explanation:
Kustomize is a GitOps tool for managing Kubernetes configurations declaratively. It uses afolder structure with configuration filesand akustomization.yamlfile 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 isD.
References:GitOps Tooling (CNCF GitOps Working Group), Kustomize practices.

NEW QUESTION # 43

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