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Linux Foundation CGOA Exam Syllabus Topics:

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

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Linux Foundation Certified GitOps Associate Sample Questions (Q56-Q61):

NEW QUESTION # 56
How can you achieve the declarative GitOps principle in managing infrastructure and applications?

- A. By using imperative scripting languages to automate infrastructure changes.
- B. By manually making ad-hoc configuration changes directly in the production environment.
- C. By defining and maintaining infrastructure and application configurations declaratively in a version- controlled system.
- D. By periodically creating manual backups of your infrastructure configurations.

Answer: C

Explanation:
The first GitOps principle isDeclarative Descriptions. This means the desired system configuration (for infrastructure, services, and applications) is expressed declaratively and stored in version control. Git becomes the single source of truth.
"The desired system state must be expressed declaratively. This provides a clear, machine-readable blueprint for the system, and ensures that what is in Git is what should be running in the environment." Therefore,infrastructure and application configurations must be defined declaratively and stored in Git, not managed imperatively or manually.
References:GitOps Principles (CNCF GitOps Working Group),Principle 1: The system is described declaratively.

NEW QUESTION # 57
In the context of GitOps, why would you do a rollback?

- A. To create a backup of the current configuration.
- B. To undo a deployment that introduced a critical bug or caused a system failure.
- C. To test a new feature in a controlled environment.
- D. To improve performance and optimize resource utilization.

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 abug, error, or failurethat 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 isA.
References:GitOps Principles (CNCF GitOps Working Group), Rollback and Recovery.

NEW QUESTION # 58
You are packaging a complex application to deploy to multiple Kubernetes clusters using GitOps. Which of the following would be a suitable solution for this process?

- A. Creating a Helm chart to define the application's configuration and dependencies.
- B. Creating a well-formatted script to deploy the application to the Kubernetes cluster.
- C. Writing a Dockerfile to build a container image of the application and configuration.
- D. Configuring a CI/CD pipeline to build and deploy the application to the Kubernetes cluster automatically.

Answer: A

Explanation:
Helm is a Kubernetes package manager widely used in GitOps for packaging, configuring, and deploying complex applications. Helm charts bundle configuration, dependencies, and Kubernetes manifests into reusable, declarative packages that can be applied across multiple clusters.
"Helm charts provide a way to package Kubernetes applications, defining configuration and dependencies declaratively. This allows consistent deployment across clusters in GitOps workflows." Thus, the correct answer isA.

References:GitOps Tooling (CNCF GitOps Working Group), Helm usage in GitOps.

NEW QUESTION # 59
Which of the following statements accurately describes the role of GitOps in progressive delivery?

- A. GitOps only works with manual progressive delivery without any automation.
- 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 requires end users to manually shift traffic for progressive delivery.

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 # 60
Which deployment and release pattern involves gradually shifting traffic from an old version of an application to a new one?

- A. Red/Black Deployment
- B. Blue-Green Deployment
- C. Canary Deployment
- D. A/B Deployment

Answer: C

Explanation:
ACanary Deploymentgradually introduces a new application version to a small subset of users before expanding to the full user base. This pattern allows testing and validation in production while reducing risk.
"Canary deployments progressively roll out changes to a small group of users, monitoring for issues before routing all traffic to the new version. This gradual shift minimizes risk and ensures safer releases." Thus, the correct answer isB.
References:GitOps Patterns (CNCF GitOps Working Group), Progressive Delivery.

NEW QUESTION # 61
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