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Linux Foundation CGOA Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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 5	<ul style="list-style-type: none"> • 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.

Linux Foundation Certified GitOps Associate Sample Questions (Q58-Q63):

NEW QUESTION # 58

Which GitOps tool has the option for a push-based reconciliation model?

- A. Argo Workflows
- **B. ArgoCD**
- C. Flagger
- D. Flux

Answer: B

Explanation:

Most GitOps tools (e.g., Flux) are pull-based only. However, ArgoCD supports both pull-based reconciliation (via continuous monitoring) and an optional push-based model, where changes can be triggered via webhooks or CI pipelines.

"ArgoCD supports both pull-based reconciliation, where the controller watches the repository, and an optional push-based reconciliation mode triggered by webhooks." Thus, the correct answer is A: ArgoCD.

References: GitOps Tooling (CNCF GitOps Working Group), ArgoCD documentation on reconciliation models.

NEW QUESTION # 59

How can you achieve the declarative GitOps principle in managing infrastructure and applications?

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

Answer: B

Explanation:

The first GitOps principle is Declarative 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 # 60

You are working on a GitOps project and want to trigger a reconcile process before the next scheduled reconciliation. What is the recommended way to do this?

- A. Schedule a cron job to run the reconcile process periodically, using RBAC to authenticate.
- B. Adjust the reconcile process interval time.
- C. Use a webhook to trigger the reconcile process based on events or changes in the Git repository.
- D. Manually execute a script to initiate the reconcile process on the cluster using GitOps tool CLI commands.

Answer: C

Explanation:

Although reconciliation is continuous in GitOps, tools often allow reconciliation to be triggered earlier than the normal polling interval. The recommended approach is to use webhooks from the Git repository, which notify the GitOps controller of changes and trigger an immediate reconcile.

"While reconciliation loops continuously compare desired and actual state, reconciliation can be triggered sooner by webhooks from version control events, ensuring timely application of changes." Thus, the correct answer is A.

References:GitOps Principles (CNCF GitOps Working Group), Reconciliation and Webhooks.

NEW QUESTION # 61

You are working on a GitOps project and want to ensure that the configuration files are written in a standardized format. What is the recommended way to ensure this?

- A. Use a linter tool to automatically check the configuration files for formatting issues.
- B. Ignore the formatting issues and focus on the functionality of the configuration files.
- C. Ask team members to manually review each other's configuration files for formatting issues.
- D. Manually review each configuration file to check for any formatting issues.

Answer: A

Explanation:

Linting tools are essential in GitOps practices for maintaining consistency, standardization, and quality in configuration files.

Automated linters can validate YAML manifests, Helm charts, or Kustomize overlays for formatting and best practices.

"Linters automate the enforcement of formatting and quality rules in declarative configuration files. They ensure standardized structure and reduce errors in GitOps workflows." Thus, the correct answer is C.

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

NEW QUESTION # 62

Which two GitOps controllers are the most popular?

- A. ArgoCD and Flux
- B. Jenkins and Tekton
- C. Keptn and Puppet
- D. Helm and Kustomize

Answer: A

Explanation:

The two most widely adopted GitOps controllers in the CNCF ecosystem are ArgoCD and Flux. Both implement the GitOps principles of continuous reconciliation from Git as the source of truth.

"ArgoCD and Flux are the two primary CNCF GitOps controllers. They implement reconciliation loops to ensure the desired state in Git matches the cluster's actual state." Thus, the correct answer is C.

References:GitOps Tooling (CNCF GitOps Working Group).

