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Linux Foundation CGOA Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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 3	<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 4	<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 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.

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Linux Foundation Certified GitOps Associate Sample Questions (Q45-Q50):

NEW QUESTION # 45

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 # 46

What does Pull Automatically refer to?

- A. Accessing the Desired State from the State Store.
- B. Webhooks informing the system about new commits.
- C. It always refers to Git pull.
- D. A GET request to a relational database.

Answer: A

Explanation:

The Pull Automatically GitOps principle refers to the way software agents continuously access the Desired State stored in the State Store (e.g., Git). Agents automatically pull the state from the repository and reconcile the system accordingly.

"Software agents automatically pull the desired state declarations from the source of truth (State Store) and continuously reconcile the system to match." Thus, the correct answer is D.

References: GitOps Principles (CNCF GitOps Working Group).

NEW QUESTION # 47

In the context of GitOps, what does Continuous mean?

- A. Reconciliation continues to happen.
- B. Reconciliation must happen instantaneously.
- C. Reconciliation only happens once.
- D. Reconciliation happens only during instantiation.

Answer: A

Explanation:

One of the four core GitOps principles is that the system must be Continuously Reconciled. This means reconciliation is not a one-time or on-demand process but happens constantly in the background, ensuring the actual system state remains aligned with the declared desired state.

"GitOps requires that reconciliation is continuous. Software agents continuously compare actual state against desired state and automatically reconcile differences." Thus, the correct answer is C.

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

NEW QUESTION # 48

In GitOps, what is the process of ensuring the actual state of a system matches its Desired State called?

- A. Webhooks
- **B. Reconciliation**
- C. Monitoring
- D. Manual Intervention

Answer: B

Explanation:

The process of keeping the actual state in sync with the desired state is called Reconciliation. GitOps controllers (e.g., ArgoCD, Flux) continuously reconcile system resources to match what is declared in Git.

"Reconciliation is the process by which agents compare the actual system state to the desired state and automatically make changes to converge them." Thus, the correct answer is A: Reconciliation.

References:GitOps Terminology (CNCF GitOps Working Group).

NEW QUESTION # 49

Can you choose one example where Configuration as Code may be utilized to manage an application's configuration and source code?

- A. Using a GUI-based configuration tool to visually configure and manage the source code of a microservices architecture.
- **B. Using a Helm chart to define and manage the configuration and container image of a web application deployed on Kubernetes.**
- C. Using a manual process of editing configuration files and manually syncing the source code of a monolithic application.
- D. Using a spreadsheet to manually update and manage the configuration and source code of a mobile application.

Answer: B

Explanation:

Configuration as Code is a GitOps-related practice where configurations are stored as declarative definitions in version control. Helm charts, for example, allow applications deployed on Kubernetes to have both their container images and configuration specified declaratively.

"Configuration as Code enables teams to manage application and infrastructure configuration in version control systems, using declarative approaches such as Kubernetes manifests or Helm charts. This ensures repeatability, automation, and auditability." Thus, Helm charts are a prime example of this practice, making C correct.

References:GitOps Related Practices (CNCF GitOps Working Group), Configuration as Code.

NEW QUESTION # 50

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