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Linux Foundation CGOA Exam Syllabus Topics:

Topic	Details
Topic 1	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 2	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 3	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 4	• 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	• 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.

Linux Foundation Certified GitOps Associate Sample Questions (Q20-Q25):

NEW QUESTION # 20

You are working on a GitOps project and have made some changes to the cluster using kubectl. What is the recommended approach to ensure that your changes are continuously reconciled?

- A. Use kubectl to delete all resources that were changed in the cluster and wait for a reconcile.
- B. Delete and recreate the cluster from scratch to ensure a clean and controlled state.
- C. Reconcile the changes by running a script or command that synchronizes the cluster with the desired state.
- **D. Save those changes to the Desired State store and allow the GitOps controller to attempt reconciliation.**

Answer: D

Explanation:

In GitOps, Git is the single source of truth. If changes are made manually in the cluster (via kubectl), those changes will drift from the desired state in Git. To ensure consistency, the correct approach is to update the Git repository (Desired State store) so that the reconciler can continuously apply and maintain those changes.

"The desired state must always be declared in Git. Manual changes in the cluster will be overwritten by reconciliation unless they are committed to the Git repository." Thus, the correct answer is B.

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

NEW QUESTION # 21

In a GitOps-managed workflow, what is the correct way to initiate rollback?

- A. Use Helm to rollback to a previous release version.
- B. Revert to an older version and force push to the main branch.
- **C. Create a new version based on a former version so you always "roll forward".**
- D. Overwrite your existing version with the code from your last working version.

Answer: C

Explanation:

In GitOps, rollback is handled via version control. However, the practice is not to overwrite history but to roll forward by creating a new version that reverts to the configuration of a previous known-good commit. This maintains immutability and a complete audit trail.

"With GitOps, changes are versioned immutably. Rollbacks are performed by rolling forward to a commit that represents a previous known-good configuration, ensuring history is preserved." Thus, the correct GitOps approach is B.

References: GitOps Principles (CNCF GitOps Working Group), Rollback and Recovery Practices.

NEW QUESTION # 22

What is Infrastructure as Code (IaC)?

- A. An approach to managing infrastructure resources using physical hardware only
- **B. A programming approach to managing and provisioning infrastructure resources through machine-readable definition files**
- C. A manual process of managing infrastructure resources using the command line
- D. A methodology for managing infrastructure resources through graphical user interfaces

Answer: B

Explanation:

Infrastructure as Code (IaC) is a foundational practice in GitOps. It involves managing and provisioning infrastructure through declarative, machine-readable files rather than manual processes or GUIs. IaC ensures consistency, automation, and repeatability across environments.

"Infrastructure as Code defines and manages infrastructure through code files stored in version control. This enables automation, reproducibility, and immutability in infrastructure provisioning." Thus, Dis correct.

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

NEW QUESTION # 23

You want to create a dashboard to monitor the performance of your application. Which of the following is a key principle of GitOps regarding dashboards?

- A. The operations team should manually update dashboards.
- **B. Dashboards declarations should be in the Desired State store.**
- C. Dashboards should only be accessible to the development team.
- D. Dashboards should be created using a proprietary tool.

Answer: B

Explanation:

In GitOps, everything that defines the system, including dashboards, must be stored declaratively in Git (the Desired State store). This ensures dashboards are versioned, reproducible, and consistent across environments.

"GitOps requires that all system components, including monitoring and observability configurations such as dashboards, are declared in Git. This ensures they are versioned, immutable, and reproducible." Thus, Dis correct.

References: GitOps Principles (CNCF GitOps Working Group).

NEW QUESTION # 24

Would you implement DevSecOps culture in CI/CD pipelines?

- A. No, because CI/CD systems are totally secure by design.
- B. No, DevSecOps focuses only on security outside of CI/CD pipelines.
- C. No, because CI/CD systems are incompatible with the DevSecOps culture.
- **D. Yes, DevSecOps is essential for CI/CD pipelines. It helps build software without any security issues.**

Answer: D

Explanation:

DevSecOps integrates security into the DevOps culture and CI/CD pipelines. Instead of treating security as an afterthought, DevSecOps ensures security checks, policies, and automated validations are embedded throughout the CI/CD process.

"DevSecOps emphasizes shifting security left, integrating security testing, validation, and compliance into every stage of the CI/CD pipeline. This ensures vulnerabilities are detected early and software is delivered securely." Thus, Dis correct: DevSecOps culture is essential for CI/CD pipelines to ensure security is baked into software delivery.

References: GitOps Related Practices (CNCF GitOps Working Group), DevSecOps in CI/CD.

NEW QUESTION # 25

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