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Linux Foundation CGOA Exam Syllabus Topics:

Topic	Details
Topic 1	• 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 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	• 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 4	• 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	• 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 (Q59-Q64):

NEW QUESTION # 59
Would you implement DevSecOps culture in CI/CD pipelines?

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

Answer: A

Explanation:
DevSecOpsintegrates 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 # 60
In GitOps, how are the Desired State declarations pulled from the source?

- A. With a CLI command or API call.
- B. Manually triggered by a webhook.
- C. By sending a request to the source repository.
- D. Automatically by software agents.

Answer: D

Explanation:
A fundamental GitOps principle is that reconciliation isautomated and continuous. Software agents (e.g., controllers like ArgoCD or Flux) continuously pull desired state declarations from Git repositories and reconcile them with the actual state.
"Software agents automatically pull the desired state declarations from the source of truth and continuously reconcile the actual state to match." Thus, the correct answer isC.
References:GitOps Principles (CNCF GitOps Working Group),Principle 4: Continuously reconciled.

NEW QUESTION # 61
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 only works with manual progressive delivery without any automation.

- C. GitOps does not allow end users to perform progressive delivery automatically, only manually.
- D. GitOps allows end users to perform progressive delivery automatically without manually shifting traffic.

Answer: D

Explanation:
Progressive delivery is 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 is automated 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 is B.
References: GitOps Patterns (CNCF GitOps Working Group), Progressive Delivery practices.

NEW QUESTION # 62
Which of these Git commands will enact a rollback of the configuration to a previous commit?

- A. git branch
- B. git commit
- C. git revert
- D. git push

Answer: C

Explanation:
In GitOps, rollback is performed by reverting the system's Desired State stored in Git. This is done with the git revert command, which creates a new commit that undoes the changes introduced by a previous commit.
"Because Git provides an immutable history of changes, rollbacks are straightforward. Reverting to a previous configuration is accomplished by reverting the commit in Git, which then allows the reconciler to apply the earlier desired state." Thus, the correct answer is B: git revert.
References: GitOps Tooling (CNCF GitOps Working Group).

NEW QUESTION # 63
How can you achieve the declarative GitOps principle in managing infrastructure and applications?

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

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 # 64
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