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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">• 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	<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 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	<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.
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Linux Foundation Certified GitOps Associate Sample Questions (Q55-Q60):

NEW QUESTION # 55

Which of these is an advantage of using a declarative configuration for your Desired State?

- A. Declarative configuration lets you specify complex if/else logic within custom code.
- B. Declarative configuration helps you include dynamic scripting that guides an application through a step- by-step process.
- C. Declarative configuration allows you to execute code locally more efficiently to make desired changes to your running system.
- D. Using widely adopted community tools for reconciling actual state is less work than maintaining custom imperative scripts.

Answer: D

Explanation:

Declarative configuration describes what the system should look like, not how to achieve it. This enables the use of standard reconciliation tools (like ArgoCD or Flux) to manage the system automatically, removing the burden of writing and maintaining imperative scripts.

"Declarative configuration enables systems to be managed by generic reconciliation tools rather than bespoke scripts, reducing operational overhead and increasing reliability." Thus, the correct answer is B.

References: GitOps Principles (CNCF GitOps Working Group), Declarative Systems.

NEW QUESTION # 56

In GitOps practices, when does CD take part?

- A. CI plays a significant role in GitOps practices.
- B. CD takes part after CI to automate the deployment of applications based on changes in the Git repository.
- C. CD takes part simultaneously with CI, both components of GitOps practices.
- D. CD takes part before CI stage in order to ensure the successful deployment of applications.

Answer: B

Explanation:

In GitOps, Continuous Deployment (CD) follows after Continuous Integration (CI). CI is responsible for building and testing application code, while CD automates the delivery and deployment of these changes into runtime environments. The Git repository serves as the single source of truth, and when CI merges new changes into the main branch, CD reconciles the state of the environment to match what is declared in Git.

"GitOps builds on the principles of DevOps by using Git as the source of truth for declarative infrastructure and applications. CI pipelines handle the integration and testing of code, and CD pipelines or agents automatically reconcile the desired state in Git with the actual state in the cluster." This shows that CD is triggered after CI to handle deployment automation, ensuring systems remain in

sync with what is declared in version control.

References: GitOps Principles (CNCF GitOps Working Group), GitOps Working Group Terminology & Principles documents.

NEW QUESTION # 57

When are progressive delivery patterns useful in software development and deployment?

- A. Progressive delivery patterns are only useful for one-time, single-deployment scenarios, not ongoing, continuous delivery.
- **B. Progressive delivery patterns are useful in several software development and deployment scenarios, as they offer advantages such as risk reduction, improved quality, and better user experience.**
- C. Progressive delivery patterns are useful during initial project development instead of in subsequent phases.
- D. Progressive delivery patterns are primarily beneficial for small development teams rather than for large organizations.

Answer: B

Explanation:

Progressive delivery is a GitOps pattern used to release software gradually, reducing risks associated with deploying new versions. Techniques such as canary releases, feature flags, and blue-green deployments allow teams to incrementally roll out changes, validate functionality with subsets of users, and minimize potential disruptions.

"Progressive delivery builds on continuous delivery by enabling safer, incremental rollouts. This pattern reduces risk, improves reliability, enhances user experience, and allows for validation of features with a portion of users before wider release." Therefore, progressive delivery is useful in multiple scenarios (not just one-time deployments or small teams), making option C correct.

References: GitOps Patterns (CNCF GitOps Working Group), Progressive Delivery Patterns documentation.

NEW QUESTION # 58

Which of the following statements accurately describes the role of GitOps in progressive delivery?

- A. GitOps does not allow end users to perform progressive delivery automatically, only manually.
- B. GitOps only works with manual progressive delivery without any automation.
- **C. GitOps allows end users to perform progressive delivery automatically without manually shifting traffic.**
- D. GitOps requires end users to manually shift traffic for progressive delivery.

Answer: C

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 # 59

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 periodically creating manual backups of your infrastructure configurations.
- **D. By defining and maintaining infrastructure and application configurations declaratively in a version-controlled system.**

Answer: D

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

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