Free PDF Quiz Linux Foundation - CGOA - Certified GitOps Associate–Reliable New Test Guide

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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 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 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 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	• 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 (Q59-Q64):

NEW QUESTION # 59
You are deploying a new version of your application using the Blue-Green deployment pattern. What is a characteristic of the Blue-Green deployment pattern?

- A. The old version of the application is deployed first, followed by the new version.
- B. The Blue-Green deployment pattern only deploys single versions of the application.
- C. Both the new and old versions of the application are deployed simultaneously.
- D. The new version of the application is deployed first, followed by the old version.

Answer: C

Explanation:
In a Blue-Green deployment, two environments (Blue and Green) exist at the same time. The current version runs in one environment (Blue), and the new version is deployed to the other environment (Green). Traffic is switched to Green once the new version is validated.
"Blue-Green deployments maintain two production environments. The new version is deployed alongside the old version, and once validated, traffic is switched from Blue to Green." Thus, the correct answer is C.
References: GitOps Patterns (CNCF GitOps Working Group), Progressive Delivery.

NEW QUESTION # 60
How does GitOps handle drift during reconciliation?

- A. Find the differences between Desired State and actual state and create a new system based on these changes.
- B. Write Kubernetes Patch files in a database for later use.
- C. Write back to Desired State to match the actual state.
- D. Attempt to apply Desired State to the running system.

Answer: D

Explanation:
When drift occurs (actual state diverges from desired state), GitOps controllers attempt to reapply the Desired State stored in Git. The system is always converged toward what Git declares, never the other way around.
"In case of drift, the reconciler re-applies the desired state from Git to the runtime environment, ensuring the actual system matches the declared configuration." Thus, the correct answer is B.
References: GitOps Principles (CNCF GitOps Working Group), Drift Management.

NEW QUESTION # 61
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 primarily beneficial for small development teams rather than for large organizations.
- C. Progressive delivery patterns are useful during initial project development instead of in subsequent phases.
- D. 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.

Answer: D

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 # 62
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 methodology for managing infrastructure resources through graphical user interfaces
- D. A manual process of managing infrastructure resources using the command line

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, D is correct.
References: GitOps Related Practices (CNCF GitOps Working Group).

NEW QUESTION # 63
A GitOps-managed Software System includes which of the following?

- A. One or more programming languages used for development.
- B. Operating systems used for hosting the software system.
- C. One or more runtime environments consisting of resources under management.
- D. Hardware infrastructure used for hosting the software system.

Answer: C

Explanation:
A GitOps-managed software system is defined as one or more runtime environments whose resources are managed declaratively via GitOps practices.
"A GitOps-managed software system includes one or more runtime environments, such as clusters, where resources are under management. The desired state of these resources is declared in Git and reconciled continuously." Thus, the correct option is B.
References: GitOps Terminology (CNCF GitOps Working Group).

NEW QUESTION # 64
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There are other countless advantages of the Certified GitOps Associate CGOA exam that you can avail of after passing the Certified GitOps Associate exam. But keep in mind to pass the Certified GitOps Associate CGOA exam is a difficult job. You have to put in some extra effort, time, and investment then you will be confident to perform well in the final Certified GitOps Associate exam. In

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