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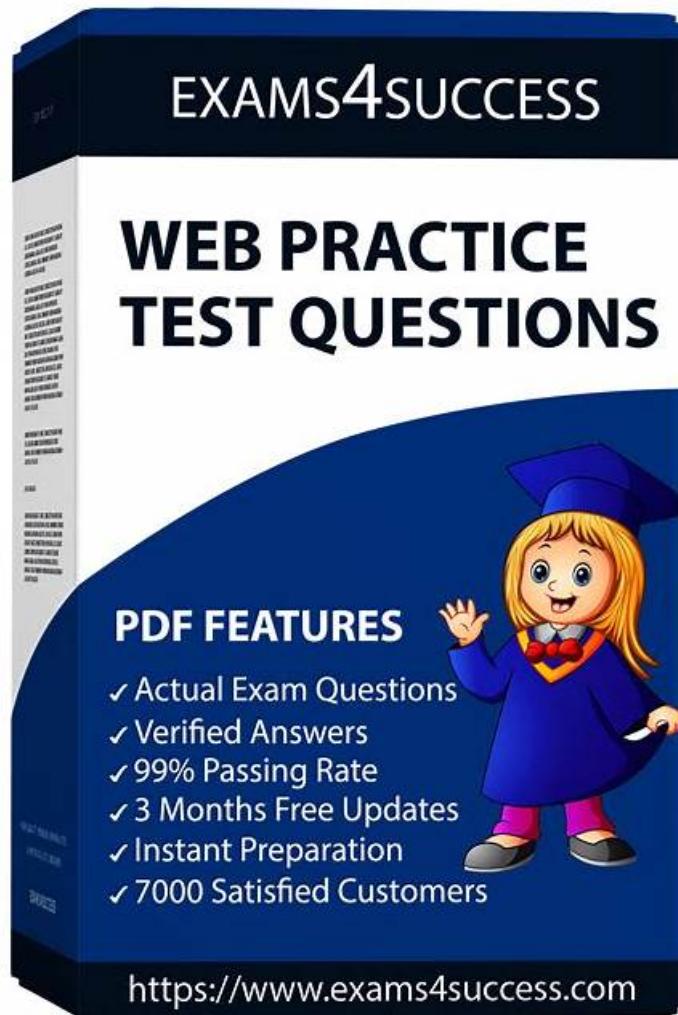
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Linux Foundation CGOA Exam Syllabus Topics:

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	• 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 3	• 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 4	• 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 5	• 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.

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Linux Foundation Certified GitOps Associate Sample Questions (Q36-Q41):

NEW QUESTION # 36
In the context of GitOps, what is the purpose of a State Store?

- A. To provide a system for storing immutable versions of Desired State declarations.
- B. To provide a system for storing temporary state data during GitOps deployments.
- C. To provide a system for storing the current state of an application.
- D. To provide a system for storing mutable versions of Desired State declarations.

Answer: A

Explanation:
A State Store in GitOps is the system of record where Desired State declarations are kept. It must be immutable and versioned to ensure full auditability, traceability, and rollback capabilities. Git itself is the most common State Store.
"The Desired State must be stored in a State Store that is versioned and immutable. This guarantees traceability and enables recovery by reverting to previous commits." Thus, the correct answer is D.
References:GitOps Terminology (CNCF GitOps Working Group).

NEW QUESTION # 37
In the context of GitOps, what does Continuous mean?

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

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 # 38

Which of the following statements best describes the relationship between DevOps and GitOps?

- A. DevOps and GitOps are competing methodologies, and organizations must choose one over the other.
- B. DevOps and GitOps are two completely separate concepts with no relation to each other.
- C. GitOps is a set of principles to guide modern DevOps in practice.
- D. DevOps and GitOps are interchangeable terms used to describe the same concept and principles.

Answer: C

Explanation:

GitOps is not a replacement for DevOps. Instead, it is an evolution and practical implementation of DevOps principles, using Git as the single source of truth and continuous reconciliation as the operational model.

"GitOps builds on the foundation of DevOps by providing a framework to put its principles into practice. It leverages Git and declarative reconciliation to realize DevOps goals." Thus, the best description of the relationship is B.

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

NEW QUESTION # 39

What is the main difference between Terraform/OpenTofu and Ansible?

- A. Terraform/OpenTofu uses a configuration language called CUE, while Ansible uses HCL.
- B. Terraform/OpenTofu is imperative in nature, while Ansible is declarative.
- C. Terraform/OpenTofu stores the state of each resource, while Ansible works in a fire-and-forget mode.
- D. Ansible is written in Golang, while Terraform/OpenTofu is written in Python.

Answer: C

Explanation:

Terraform (or OpenTofu) uses a declarative model and maintains a state file to track the current status of resources, enabling it to plan and reconcile changes. Ansible, by contrast, is more procedural and executes tasks in a fire-and-forget manner, without tracking persistent resource state.

"Terraform maintains state for each managed resource, enabling planned, consistent changes. Ansible executes tasks without tracking resource state, working in a fire-and-forget model." Thus, the correct answer is B.

References: GitOps Tooling (CNCF GitOps Working Group).

NEW QUESTION # 40

Why is the feedback loop important for reconciliation?

- A. To analyze state-sync logging information and perform a sync.
- B. To trigger an alert if a change is detected, and log the event to the log aggregation service.
- C. To determine if a reconciliation is needed and whether a sync should be partial or complete.
- D. Feedback loop is not important for reconciliation.

Answer: C

Explanation:

The feedback loop is critical in GitOps reconciliation. It continuously monitors the system's actual state and compares it to the desired state. This loop determines when reconciliation is required and whether a full or partial synchronization is necessary.

"The feedback loop in reconciliation continuously observes the actual state. It determines if reconciliation is required, and informs whether to perform a partial or full sync to align with the declared desired state." Thus, the correct answer is A.

References: GitOps Related Practices (CNCF GitOps Working Group), Reconciliation Feedback Loops.

NEW QUESTION # 41
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