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Linux Foundation CGOA Exam Syllabus Topics:

Topic	Details
Topic 1	<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.
Topic 2	<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 3	<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 4	<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 5	<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.

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Linux Foundation Certified GitOps Associate Sample Questions (Q23-Q28):

NEW QUESTION # 23

In GitOps, which option describes State Store management?

- A. Storing state information in a relational database.
- B. Storing state information in a centralized database.
- C. Storing state information in a distributed file system.
- **D. Storing state information in a version control system.**

Answer: D

Explanation:

The State Store is typically implemented using a version control system (VCS) such as Git. This ensures that the system's state is auditable, versioned, and immutable. Other systems like databases or distributed file systems do not meet the immutability and versioning requirements of GitOps.

"In GitOps, the desired state must be stored in a version control system. This serves as the State Store, providing a complete, immutable, and auditable history of changes." Thus, the correct answer is D: version control system.

References: GitOps Terminology (CNCF GitOps Working Group).

NEW QUESTION # 24

Which of the following is part of a declaratively defined system?

- A. Both the desired state and the steps to reach the Desired State.
- B. Only the code for reaching the Desired State.
- **C. Only the Desired State.**
- D. Only the steps to reach the Desired State.

Answer: C

Explanation:

In GitOps, systems are defined declaratively. This means that the desired state is described in Git, while the steps to achieve it are not explicitly defined. Instead, reconciliation agents interpret the declarative definition and automatically apply changes as needed.

"A declaratively defined system specifies only the desired state. It does not describe the sequence of steps required to reach that state. The reconciliation process ensures the system converges to the declared state automatically." Therefore, the correct answer is C: Only the Desired State.

References: GitOps Principles (CNCF GitOps Working Group), Principle 1: The system is described declaratively.

NEW QUESTION # 25

In the context of GitOps, what is the purpose of a State Store?

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

Answer: C

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 # 26

What does the GitOps reconciliation loop ensure?

- A. That the Desired State is instantaneously applied to the system.
- B. Only applies changes but does not remove resources that used to be part of the Desired State.
- **C. The Desired State is applied to the system when the current system state diverges from the Desired State.**
- D. When manifests have errors, it will ensure that as much as possible still gets applied.

Answer: C

Explanation:

The reconciliation loop is a fundamental GitOps principle. It continuously compares the desired state (stored in Git) with the actual state (running in the system). When a divergence (drift) is detected, the reconciler automatically corrects the system to match the desired state.

"The reconciliation loop ensures the system is continuously converging toward the declared desired state.

Whenever the actual state deviates, the loop reconciles the system to match the desired state." Thus, the correct answer is C.

References: GitOps Principles (CNCF GitOps Working Group).

NEW QUESTION # 27

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. Automatically by software agents.**
- D. By sending a request to the source repository.

Answer: C

Explanation:

A fundamental GitOps principle is that reconciliation is automated 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 is C.

References: GitOps Principles (CNCF GitOps Working Group), Principle 4: Continuously reconciled.

NEW QUESTION # 28

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