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Linux Foundation Certified GitOps Associate Sample Questions (Q31-Q36):

NEW QUESTION # 31

How can you achieve the declarative GitOps principle in managing infrastructure and applications?

- A. By defining and maintaining infrastructure and application configurations declaratively in a version- controlled system.
- 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 using imperative scripting languages to automate infrastructure changes.

Answer: A

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 # 32

In the context of GitOps, which of the following is the primary purpose of Desired State?

- A. To track code changes that developers have made.
- **B. To serve as a blueprint to recreate a system for behavioral consistency.**
- C. To store all persistent application data, such as database content.
- D. For monitoring real-time application performance.

Answer: B

Explanation:

The Desired State in GitOps is the declarative specification of how the system should behave. It is stored in Git and serves as the reference point for reconciliation against the actual state.

"The desired state is a complete specification of the system stored in Git. It acts as the blueprint from which the actual state is continuously reconciled, ensuring the system remains consistent and reproducible." Thus, the primary purpose of Desired State is to act as a blueprint to recreate and ensure consistency of the system.

References: GitOps Terminology (CNCF GitOps Working Group).

NEW QUESTION # 33

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

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

Answer: B

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 # 34

You are working on a GitOps project and need to understand the similarities and differences between pull-based messaging systems and event-driven systems. What is a key difference between these two types of systems?

- A. Event-driven systems are less flexible and scalable compared to pull-based systems.
- **B. When only events trigger reconciliation, the system is more vulnerable to drift caused by other things.**
- C. Pull-based systems are more efficient in handling real-time events.
- D. Pull-based systems require a constant network connection to receive updates.

Answer: B

Explanation:

In GitOps, the pull-based model continuously reconciles the actual state with the desired state. This makes it resilient to drift, since reconciliation runs regularly. In contrast, event-driven systems only reconcile when an event occurs (e.g., a webhook), which makes them more prone to drift if changes happen outside those events.

"A pull-based reconciliation loop ensures continuous alignment with the desired state. Event-driven reconciliation, triggered only on events, risks system drift if changes occur outside those triggers." Thus, the correct answer is D.

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

NEW QUESTION # 35

In GitOps, what does it mean to Continuously Reconcile?

- A. Monitor the system for any unauthorized changes and revert them.
- **B. Automatically compare and adjust the system state as needed.**
- C. Regularly update Git repositories with the latest changes from external sources.
- D. Perform regular backups of Git repositories.

Answer: B

Explanation:

Continuous reconciliation is another core GitOps principle. It means that software agents (operators or controllers) run loops that continuously observe the live system and compare it against the desired state declared in Git. If any divergence (drift) is found, the agent automatically reconciles the system to match the declared configuration.

"Software agents continuously observe the actual system state and compare it with the desired state declared in Git. If a divergence is detected, the agents automatically reconcile the difference to bring the system back into alignment." This provides automation, consistency, and self-healing, which are hallmarks of GitOps.

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

NEW QUESTION # 36

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