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Linux Foundation Certified GitOps Associate Sample Questions (Q19-Q24):

NEW QUESTION # 19

You are working on a GitOps project and have made some changes to the cluster using kubectl. What is the recommended approach to ensure that your changes are continuously reconciled?

- A. Delete and recreate the cluster from scratch to ensure a clean and controlled state.
- B. Use kubectl to delete all resources that were changed in the cluster and wait for a reconcile.
- C. Save those changes to the Desired State store and allow the GitOps controller to attempt reconciliation.

- D. Reconcile the changes by running a script or command that synchronizes the cluster with the desired state.

Answer: C

Explanation:

In GitOps, Git is the single source of truth. If changes are made manually in the cluster (via kubectl), those changes will drift from the desired state in Git. To ensure consistency, the correct approach is to update the Git repository (Desired State store) so that the reconciler can continuously apply and maintain those changes.

"The desired state must always be declared in Git. Manual changes in the cluster will be overwritten by reconciliation unless they are committed to the Git repository." Thus, the correct answer is B.

References: GitOps Principles (CNCF GitOps Working Group), Drift and Reconciliation Practices.

NEW QUESTION # 20

What is one of the key benefits of a pull-based reconciliation approach to configuration management?

- A. Agents can access the Desired State at any time, not only when an event is triggered.
- B. The CI has access credentials to the running system.
- C. Immediate response time to configuration changes.
- D. Simplified troubleshooting and debugging processes.

Answer: A

Explanation:

In GitOps, the pull-based reconciliation approach means that agents continuously monitor the Desired State in Git. Unlike push-based systems, which only act when triggered, pull-based systems can reconcile at any time, providing resilience, self-healing, and security (since no external system needs direct access to the cluster).

"In a pull-based model, reconciliation agents continuously fetch and compare the desired state, enabling self-healing and ensuring the desired configuration is accessible at all times." Thus, the correct answer is B.

References: GitOps Principles (CNCF GitOps Working Group), Pull vs. Push reconciliation models.

NEW QUESTION # 21

In GitOps, what is a pull-based approach?

- A. A pull-based approach is when the GitOps system continuously polls the Git repository for changes and applies them automatically.
- B. A pull-based approach is when developers manually push changes to the GitOps system, which then applies them automatically.
- C. A pull-based approach is when the Git repository automatically pushes changes to the GitOps system, which then applies them.
- D. A pull-based approach is when the GitOps system sends notifications to developers to apply changes from the Git repository manually.

Answer: A

Explanation:

In GitOps, pull-based deployment is fundamental. Instead of pushing changes into a cluster, GitOps agents running inside the cluster continuously pull from Git to reconcile desired state.

"GitOps uses a pull-based model: agents inside the cluster continuously poll the Git repository for desired state changes. If changes are found, they reconcile the live system automatically to match the declared state." This ensures secure, automated, and consistent deployments.

Thus, D is correct.

References: GitOps Principles (CNCF GitOps Working Group), Pull-based Reconciliation Model.

NEW QUESTION # 22

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

- A. Progressive delivery patterns are primarily beneficial for small development teams rather than for large organizations.
- B. Progressive delivery patterns are only useful for one-time, single-deployment scenarios, not ongoing, continuous delivery.

- 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 # 23

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 Blue-Green deployment pattern only deploys single versions of the application.
- B. The old version of the application is deployed first, followed by the new version.
- **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 # 24

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