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Linux Foundation Certified GitOps Associate Sample Questions (Q60-Q65):

NEW QUESTION # 60

Which of these Git commands will enact a rollback of the configuration to a previous commit?

- A. git commit
- B. git revert
- C. git branch
- D. git push

Answer: B

Explanation:

In GitOps, rollback is performed by reverting the system's Desired State stored in Git. This is done with the `git revert` command, which creates a new commit that undoes the changes introduced by a previous commit.

"Because Git provides an immutable history of changes, rollbacks are straightforward. Reverting to a previous configuration is accomplished by reverting the commit in Git, which then allows the reconciler to apply the earlier desired state." Thus, the correct answer is B: `git revert`.

References: GitOps Tooling (CNCF GitOps Working Group).

NEW QUESTION # 61

You are packaging a complex application to deploy to multiple Kubernetes clusters using GitOps. Which of the following would be a suitable solution for this process?

- A. Creating a Helm chart to define the application's configuration and dependencies.
- B. Writing a Dockerfile to build a container image of the application and configuration.
- C. Creating a well-formatted script to deploy the application to the Kubernetes cluster.
- D. Configuring a CI/CD pipeline to build and deploy the application to the Kubernetes cluster automatically.

Answer: A

Explanation:

Helm is a Kubernetes package manager widely used in GitOps for packaging, configuring, and deploying complex applications.

Helm charts bundle configuration, dependencies, and Kubernetes manifests into reusable, declarative packages that can be applied across multiple clusters.

"Helm charts provide a way to package Kubernetes applications, defining configuration and dependencies declaratively. This allows consistent deployment across clusters in GitOps workflows." Thus, the correct answer is A.

References: GitOps Tooling (CNCF GitOps Working Group), Helm usage in GitOps.

NEW QUESTION # 62

Which requirement of the GitOps principle declares that Desired State must be versioned?

- A. The Desired State must not be publicly accessible.
- B. The Desired State must be publicly accessible.
- C. The State Store must retain a complete version history.
- D. You must use Git in order to be compliant with this principle.

Answer: C

Explanation:

One of the GitOps principles is Versioned and Immutable, which requires that the Desired State is stored in a system that maintains a complete version history. This allows for auditing, traceability, and rollback.

"The Desired State must be stored in a versioned, immutable system. The State Store must retain a complete version history so changes can be audited and previous states can be restored." Thus, the correct answer is B.

References: GitOps Principles (CNCF GitOps Working Group), Principle 2: Versioned and Immutable.

NEW QUESTION # 63

Which of the following best describes the role of Git as the "single source of truth" in GitOps?

- A. Git acts as the sole system of record for both infrastructure and application declarative configurations.
- B. Git stores only application source code, while deployment configurations are managed elsewhere.
- C. Git is primarily used for versioning, but runtime configurations are excluded from GitOps workflows.
- D. Git is optional in GitOps; any version control system or manual configuration management can serve the same purpose.

Answer: A

Explanation:

The core foundation of GitOps is that Git serves as the single source of truth for the desired state of both applications and infrastructure. This means all configuration is declared in Git in a version-controlled, auditable, and verifiable manner. Operators and reconciliation agents continuously pull these definitions to ensure the live system matches what Git declares.

"Declarative descriptions of the desired state of the system must be versioned in Git, making Git the single source of truth. This

provides auditability, reliability, and enables rollbacks by reverting changes in Git." This principle ensures that any change in system state is traceable through Git commits, making environments predictable, reproducible, and transparent.
References: GitOps Principles (CNCF GitOps Working Group), Principle 1: The desired system state is declarative and versioned in Git repositories.

NEW QUESTION # 64

Which statement describes Blue-Green deployments?

- A. Blue-Green deployments involve deploying only one version at a time.
- B. Blue-Green deployments involve deploying different versions of an application in other regions and routing traffic based on geographic location.
- C. Blue-Green deployments involve deploying the new version of an application alongside the old version and switching traffic to the latest version once it is ready.
- D. Blue-Green deployments involve deploying the new version of an application to a subset of users and gradually expanding the deployment based on feedback.

Answer: C

Explanation:

Blue-Green deployments are a progressive delivery pattern where two environments exist: Blue (current version) and Green (new version). The new version is deployed in parallel, and once validated, traffic is switched over from Blue to Green.

"Blue-Green deployments provide zero-downtime releases by running two production environments: one active and one idle. A new version is deployed to the idle environment, tested, and when ready, traffic is switched to it." Thus, the correct description is A.

References: GitOps Patterns (CNCF GitOps Working Group), Progressive Delivery patterns.

NEW QUESTION # 65

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