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Linux Foundation Certified GitOps Associate Sample Questions (Q27-Q32):

NEW QUESTION # 27

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 to a subset of users and gradually expanding the deployment based on feedback.
- **D. 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.**

Answer: D

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 # 28

What is Infrastructure as Code (IaC)?

- A. A methodology for managing infrastructure resources through graphical user interfaces
- **B. A programming approach to managing and provisioning infrastructure resources through machine-readable definition files**
- C. An approach to managing infrastructure resources using physical hardware only
- D. A manual process of managing infrastructure resources using the command line

Answer: B

Explanation:

Infrastructure as Code (IaC) is a foundational practice in GitOps. It involves managing and provisioning infrastructure through declarative, machine-readable files rather than manual processes or GUIs. IaC ensures consistency, automation, and repeatability across environments.

"Infrastructure as Code defines and manages infrastructure through code files stored in version control. This enables automation, reproducibility, and immutability in infrastructure provisioning." Thus, B is correct.

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

NEW QUESTION # 29

Which of the following statements accurately describes the role of GitOps in progressive delivery?

- A. GitOps only works with manual progressive delivery without any automation.
- **B. GitOps allows end users to perform progressive delivery automatically without manually shifting traffic.**
- C. GitOps requires end users to manually shift traffic for progressive delivery.
- D. GitOps does not allow end users to perform progressive delivery automatically, only manually.

Answer: B

Explanation:

Progressive delivery is a GitOps pattern that incrementally rolls out application updates, using methods like canary releases, feature flags, and blue-green deployments. GitOps enhances this by ensuring the rollout is automated and declaratively managed through Git, removing the need for manual traffic switching.

"GitOps enables progressive delivery by declaratively managing rollout strategies such as canary or blue-green deployments. These strategies are applied automatically by controllers, without requiring manual traffic switching." Thus, the correct answer is B.

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

NEW QUESTION # 30

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

- A. Progressive delivery patterns are useful during initial project development instead of in subsequent phases.
- **B. 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.**
- C. Progressive delivery patterns are primarily beneficial for small development teams rather than for large organizations.

- D. Progressive delivery patterns are only useful for one-time, single-deployment scenarios, not ongoing, continuous delivery.

Answer: B

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 # 31

In the context of GitOps, what does Desired State refer to?

- A. The state that the system or application was in before any changes were made.
- B. The current state of the system or application.
- C. The state that the system or application should be in.
- D. The state that the system or application will be in after all changes are made.

Answer: C

Explanation:

The Desired State is the declarative specification stored in Git that defines how the system should look and behave. It is the reference point against which the actual state is continuously reconciled.

"Desired state is the complete declarative specification of a system stored in Git. It defines how the system should be configured and serves as the source of truth for reconciliation." Thus, the correct answer is A.

References: GitOps Terminology (CNCF GitOps Working Group).

NEW QUESTION # 32

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