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Linux Foundation CGOA Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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 3	<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.

Topic 4	<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 5	<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.

Linux Foundation Certified GitOps Associate Sample Questions (Q30-Q35):

NEW QUESTION # 30

Would you implement DevSecOps culture in CI/CD pipelines?

- A. No, because CI/CD systems are incompatible with the DevSecOps culture.
- B. No, because CI/CD systems are totally secure by design.
- C. Yes, DevSecOps is essential for CI/CD pipelines. It helps build software without any security issues.**
- D. No, DevSecOps focuses only on security outside of CI/CD pipelines.

Answer: C

Explanation:

DevSecOps integrates security into the DevOps culture and CI/CD pipelines. Instead of treating security as an afterthought, DevSecOps ensures security checks, policies, and automated validations are embedded throughout the CI/CD process.

"DevSecOps emphasizes shifting security left, integrating security testing, validation, and compliance into every stage of the CI/CD pipeline. This ensures vulnerabilities are detected early and software is delivered securely." Thus, this is correct: DevSecOps culture is essential for CI/CD pipelines to ensure security is baked into software delivery.

References: GitOps Related Practices (CNCF GitOps Working Group), DevSecOps in CI/CD.

NEW QUESTION # 31

Which method(s) of accessing the Desired State store does GitOps support?

- A. Pull is required and push can optionally be used in addition to pull**
- B. Push method only
- C. Neither push nor pull
- D. Replication only

Answer: A

Explanation:

GitOps requires a pull-based approach as the default model, where agents in the cluster automatically pull desired state from Git. However, push-based triggers (e.g., webhooks) can optionally be used to complement pull-based reconciliation.

"Pull-based reconciliation is required in GitOps to ensure automation and security. Push-based triggers may optionally complement this, but the pull model is fundamental." Thus, the correct answer is D.

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

NEW QUESTION # 32

Manual updates are common causes of what?

- A. Changes in Desired State leading to drift.
- B. Changes in Desired State leading to failure.
- C. Changes in actual state leading to variance.
- D. Changes in actual state leading to drift.**

Answer: D

Explanation:

In GitOps, the desired state is stored in Git. Manual updates applied directly to the cluster (via kubectl or APIs) change the actual

state without updating Git. This introduces drift between actual and desired state.

"Manual changes to the runtime environment cause the actual state to diverge from the desired state stored in Git. This drift must be detected and reconciled automatically." Thus, the correct answer is C.

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

NEW QUESTION # 33

In the context of GitOps, why would you do a rollback?

- A. To undo a deployment that introduced a critical bug or caused a system failure.
- B. To test a new feature in a controlled environment.
- C. To improve performance and optimize resource utilization.
- D. To create a backup of the current configuration.

Answer: A

Explanation:

In GitOps, rollback is the process of reverting to a previous known-good configuration stored in Git. This is typically done when a deployment introduces a bug, error, or failure that impacts system stability.

"Rollback in GitOps is used to revert to a previous commit representing a stable configuration when the current deployment causes errors or failures." Thus, the correct answer is A.

References: GitOps Principles (CNCF GitOps Working Group), Rollback and Recovery.

NEW QUESTION # 34

When deciding whether to use an in-cluster reconciler or an external reconciler, what factors should be considered?

- A. The location of the state store and the number of replicas.
- B. The version of Kubernetes and the availability of network resources.
- C. The size of the cluster and the complexity of the reconciler logic.
- D. The programming language the applications are written in.

Answer: C

Explanation:

In GitOps, reconcilers ensure the actual state matches the desired state. Reconcilers may run inside the cluster (in-cluster) or outside (external). The choice depends primarily on operational scale and the complexity of reconciliation logic.

"When determining reconciler placement, factors such as the size of the environment, the operational complexity of the reconciler, and the performance requirements should be evaluated. In-cluster reconcilers are common for straightforward deployments, while external reconcilers may be chosen for large-scale or complex systems." Thus, the most important considerations are cluster size and complexity of reconciler logic, making B correct.

References: GitOps Related Practices (CNCF GitOps Working Group), GitOps Reconciler Guidelines.

NEW QUESTION # 35

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