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Linux Foundation CGOA Exam Syllabus Topics:

Topic	Details
Topic 1	• 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 2	• 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	• 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 4	• 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.

Topic 5	• 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.

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Linux Foundation Certified GitOps Associate Sample Questions (Q22-Q27):

NEW QUESTION # 22
How does GitOps handle drift during reconciliation?

- A. Attempt to apply Desired State to the running system.
- B. Write back to Desired State to match the actual state.
- C. Find the differences between Desired State and actual state and create a new system based on these changes.
- D. Write Kubernetes Patch files in a database for later use.

Answer: A

Explanation:
When drift occurs (actual state diverges from desired state), GitOps controllers attempt to reapply the Desired State stored in Git. The system is always converged toward what Git declares, never the other way around.
"In case of drift, the reconciler re-applies the desired state from Git to the runtime environment, ensuring the actual system matches the declared configuration." Thus, the correct answer is B.
References: GitOps Principles (CNCF GitOps Working Group), Drift Management.

NEW QUESTION # 23
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 only useful for one-time, single-deployment scenarios, not ongoing, continuous delivery.
- D. Progressive delivery patterns are primarily beneficial for small development teams rather than for large organizations.

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 # 24
You want to route alerts from Prometheus to Slack in your GitOps workflow. Which tool can you use to achieve this?

- A. Alertmanager
- B. Prometheus
- C. Slack
- D. Jenkins X

Answer: A

Explanation:
Prometheus is commonly used in GitOps for monitoring.Alertmanageris the tool integrated with Prometheus to handle alert routing. It supports sending alerts to external systems such as Slack, PagerDuty, or email.
"Prometheus generates alerts, which are routed and managed by Alertmanager. Alertmanager can integrate with messaging tools like Slack to deliver alerts in real time." Thus, the correct answer isA: Alertmanager.
References:GitOps Tooling (CNCF GitOps Working Group), Monitoring and Alerting practices.

NEW QUESTION # 25
Which two GitOps controllers are the most popular?

- A. ArgoCD and Flux
- B. Helm and Kustomize
- C. Keptn and Puppet
- D. Jenkins and Tekton

Answer: A

Explanation:
The two most widely adopted GitOps controllers in the CNCF ecosystem areArgoCDandFlux. Both implement the GitOps principles of continuous reconciliation fromGit as the source of truth.
"ArgoCD and Flux are the two primary CNCF GitOps controllers. They implement reconciliation loops to ensure the desired state in Git matches the cluster's actual state." Thus, the correct answer isC.
References:GitOps Tooling (CNCF GitOps Working Group).

NEW QUESTION # 26
In the context of GitOps, what is the purpose of a State Store?

- A. To provide a system for storing mutable versions of Desired State declarations.
- B. To provide a system for storing the current state of an application.
- C. To provide a system for storing temporary state data during GitOps deployments.
- D. To provide a system for storing immutable versions of Desired State declarations.

Answer: D

Explanation:
AState Storein GitOps is the system of record whereDesired State declarationsare kept. It must be immutable and versioned to ensure full auditability, traceability, and rollback capabilities. Git itself is the most common State Store.
"The Desired State must be stored in a State Store that is versioned and immutable. This guarantees traceability and enables recovery by reverting to previous commits." Thus, the correct answer isD.
References:GitOps Terminology (CNCF GitOps Working Group).

NEW QUESTION # 27
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