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Linux Foundation CGOA Exam Syllabus Topics:

Topic	Details
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Topic 1	<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 2	<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 3	<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.
Topic 4	<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 5	<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.

Linux Foundation Certified GitOps Associate Sample Questions (Q16-Q21):

NEW QUESTION # 16

In a GitOps-managed workflow, what is the correct way to initiate rollback?

- A. Overwrite your existing version with the code from your last working version.
- B. Use Helm to rollback to a previous release version.
- **C. Create a new version based on a former version so you always "roll forward".**
- D. Revert to an older version and force push to the main branch.

Answer: C

Explanation:

In GitOps, rollback is handled via version control. However, the practice is not to overwrite history but to roll forward by creating a new version that reverts to the configuration of a previous known-good commit. This maintains immutability and a complete audit trail.

"With GitOps, changes are versioned immutably. Rollbacks are performed by rolling forward to a commit that represents a previous known-good configuration, ensuring history is preserved." Thus, the correct GitOps approach is B.

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

NEW QUESTION # 17

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

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

Answer: D

Explanation:

Prometheus is commonly used in GitOps for monitoring. Alertmanager is 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 is A: Alertmanager.

References: GitOps Tooling (CNCF GitOps Working Group), Monitoring and Alerting practices.

NEW QUESTION # 18

What does the GitOps reconciliation loop ensure?

- A. The Desired State is applied to the system when the current system state diverges from the Desired State.
- B. Only applies changes but does not remove resources that used to be part of the Desired State.
- C. When manifests have errors, it will ensure that as much as possible still gets applied.
- D. That the Desired State is instantaneously applied to the system.

Answer: A

Explanation:

The reconciliation loop is a fundamental GitOps principle. It continuously compares the desired state (stored in Git) with the actual state (running in the system). When a divergence (drift) is detected, the reconciler automatically corrects the system to match the desired state.

"The reconciliation loop ensures the system is continuously converging toward the declared desired state.

Whenever the actual state deviates, the loop reconciles the system to match the desired state." Thus, the correct answer is C.

References: GitOps Principles (CNCF GitOps Working Group).

NEW QUESTION # 19

Which deployment and release pattern involves gradually shifting traffic from an old version of an application to a new one?

- A. Canary Deployment
- B. Red/Black Deployment
- C. Blue-Green Deployment
- D. A/B Deployment

Answer: A

Explanation:

A Canary Deployment gradually introduces a new application version to a small subset of users before expanding to the full user base. This pattern allows testing and validation in production while reducing risk.

"Canary deployments progressively roll out changes to a small group of users, monitoring for issues before routing all traffic to the new version. This gradual shift minimizes risk and ensures safer releases." Thus, the correct answer is B.

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

NEW QUESTION # 20

In the context of GitOps, what source of truth guides the continuous deployment process?

- A. Current State
- B. Fleeting State
- C. Dynamic State
- D. Desired State

Answer: D

Explanation:

The Desired State, stored in Git, is the ultimate source of truth in GitOps. It defines how the system should look and behave. Continuous deployment processes reconcile the actual cluster state against this Desired State.

"In GitOps, the desired state kept in Git is the single source of truth. The reconciler ensures the actual state matches the desired state, guiding the continuous deployment process." Thus, the correct answer is A.

References: GitOps Terminology (CNCF GitOps Working Group).

NEW QUESTION # 21

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