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Linux Foundation CGOA Exam Syllabus Topics:

Topic	Details
Topic 1	<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 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 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.

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Linux Foundation Certified GitOps Associate Sample Questions (Q45-Q50):

NEW QUESTION # 45

How does GitOps handle drift during reconciliation?

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

Answer: D

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 # 46

You are implementing GitOps in your organization and have configured the Desired State of your applications in a Git repository. However, during the deployment process, you encounter an error in the configuration. What is the recommended action in this scenario?

- A. Continue to monitor the issue and proceed with the deployment, as it may not significantly impact the application.
- **B. Roll back the deployment to the previous working version while investigating the error in the configuration file.**
- C. Make a call to the Kubernetes API with the correction.
- D. Raise a ticket with the development team to fix the error in the configuration file.

Answer: B

Explanation:

GitOps emphasizes immutability and auditability. If an error occurs in the configuration stored in Git, the system should be rolled back to the last known good state while the error is fixed. This preserves system reliability and aligns with the GitOps principle of rollback through version control.

"With Git as the source of truth, if an error is introduced, the system can be rolled back by reverting to a previous commit. This ensures stability while the faulty configuration is corrected." Thus, the recommended action is C: Roll back to the previous working version.

References: GitOps Principles (CNCF GitOps Working Group).

NEW QUESTION # 47

Which of the following is an example of an external reconciler?

- A. Helm
- **B. Flux**
- C. Kustomize
- D. KubeFlow

Answer: B

Explanation:

An external reconciler ensures that the actual system matches the desired state declared in Git. External reconcilers run outside the core cluster orchestration process. Flux is a widely used GitOps external reconciler that continuously syncs cluster state with the repository.

"Flux is an example of a GitOps reconciler that continuously monitors Git repositories and applies changes to the cluster. As an external reconciler, it handles synchronization and reconciliation loops outside the direct application code." Thus, A: Flux is correct.

References: GitOps Tooling (CNCF GitOps Working Group).

NEW QUESTION # 48

In GitOps, what does it mean to Continuously Reconcile?

- A. Monitor the system for any unauthorized changes and revert them.
- **B. Automatically compare and adjust the system state as needed.**
- C. Regularly update Git repositories with the latest changes from external sources.
- D. Perform regular backups of Git repositories.

Answer: B

Explanation:

Continuous reconciliation is another core GitOps principle. It means that software agents (operators or controllers) run loops that continuously observe the live system and compare it against the desired state declared in Git. If any divergence (drift) is found, the agent automatically reconciles the system to match the declared configuration.

"Software agents continuously observe the actual system state and compare it with the desired state declared in Git. If a divergence is detected, the agents automatically reconcile the difference to bring the system back into alignment." This provides automation, consistency, and self-healing, which are hallmarks of GitOps.

References: GitOps Principles (CNCF GitOps Working Group), Principle 4: Continuously reconciled.

NEW QUESTION # 49

A GitOps project wants to leverage both ArgoCD and Flux for a deployment. Can ArgoCD and Flux be used in conjunction?

- A. ArgoCD and Flux cannot be used together as they have conflicting functionalities.
- **B. ArgoCD and Flux can be used together, leveraging a drop-in extension for ArgoCD, ensuring that both reconciliation engines do not conflict.**
- C. If you modify their source code, ArgoCD and Flux can only be used together.
- D. ArgoCD and Flux cannot be used together as they are designed for different types of deployments.

Answer: B

Explanation:

ArgoCD and Flux are the two primary CNCF GitOps tools. While both are reconciliation engines, they can be used together carefully if configured properly to avoid conflicts. For example, Flux can be used to manage configuration sources, while ArgoCD handles application-level delivery. Extensions and integration points allow them to complement each other.

"ArgoCD and Flux implement the GitOps reconciliation principle. Though they provide overlapping functionality, they can be integrated by carefully managing their scope. For instance, Flux can manage sources and Helm charts, while ArgoCD handles higher-level deployments. Extensions exist to allow cooperation without conflict." Thus, the correct answer is C.

References: GitOps Tooling (CNCF GitOps Working Group).

NEW QUESTION # 50

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