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Linux Foundation CGOA Exam Syllabus Topics:

Topic	Details
Topic 1	• 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	• 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	• 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	• 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	• 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.

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Linux Foundation Certified GitOps Associate Sample Questions (Q59-Q64):

NEW QUESTION # 59
What is one of the key benefits of a pull-based reconciliation approach to configuration management?

- A. Immediate response time to configuration changes.
- B. Agents can access the Desired State at any time, not only when an event is triggered.
- C. Simplified troubleshooting and debugging processes.
- D. The CI has access credentials to the running system.

Answer: B

Explanation:
In GitOps, thepull-based reconciliation approachmeans that agents continuously monitor the Desired State in Git. Unlike push-based systems, which only act when triggered, pull-based systems can reconcile at any time, providing resilience, self-healing, and security (since no external system needs direct access to the cluster).
"In a pull-based model, reconciliation agents continuously fetch and compare the desired state, enabling self- healing and ensuring the desired configuration is accessible at all times." Thus, the correct answer isB.
References:GitOps Principles (CNCF GitOps Working Group), Pull vs. Push reconciliation models.

NEW QUESTION # 60
Which of these Git commands will enact a rollback of the configuration to a previous commit?

- A. git branch
- B. git commit
- C. git revert
- D. git push

Answer: C

Explanation:
In GitOps, rollback is performed by reverting the system'sDesired Statestored in Git. This is done with thegit revertcommand, which creates a new commit that undoes the changes introduced by a previous commit.
"Because Git provides an immutable history of changes, rollbacks are straightforward. Reverting to a previous configuration is accomplished by reverting the commit in Git, which then allows the reconciler to apply the earlier desired state." Thus, the correct answer isB: git revert.
References:GitOps Tooling (CNCF GitOps Working Group).

NEW QUESTION # 61
You are working on a GitOps project and want to trigger a reconcile process before the next scheduled reconciliation. What is the recommended way to do this?

- A. Use a webhook to trigger the reconcile process based on events or changes in the Git repository.
- B. Manually execute a script to initiate the reconcile process on the cluster using GitOps tool CLI commands.
- C. Adjust the reconcile process interval time.
- D. Schedule a cron job to run the reconcile process periodically, using RBAC to authenticate.

Answer: A

Explanation:
Although reconciliation is continuous in GitOps, tools often allow reconciliation to be triggered earlier than the normal polling interval. The recommended approach is to usewebhooks from the Git repository, which notify the GitOps controller of changes and trigger an immediate reconcile.
"While reconciliation loops continuously compare desired and actual state, reconciliation can be triggered sooner by webhooks from version control events, ensuring timely application of changes." Thus, the correct answer isA.
References:GitOps Principles (CNCF GitOps Working Group), Reconciliation and Webhooks.

NEW QUESTION # 62
In GitOps, what does the principle ofVersioned and Immutablemean?

- A. Configuration and infrastructure code should be version-controlled and treated as immutable artifacts.
- B. All changes to configuration and infrastructure should be made directly on production environments.
- C. All software versions should be stored in a Git repository.
- D. Configuration and infrastructure code should be modified directly on production environments.

Answer: A

Explanation:
One of the four fundamental GitOps principles isVersioned and Immutable. This means that the entire system' s desired state must be stored in a Git repository with version control. Each change must be represented as a commit, and Git's immutability guarantees a reliable, auditable history of how the system evolved.
"The desired state is stored in a version control system. The record of truth is stored in an immutable history, and changes can be audited and reverted if necessary. This guarantees that the system's configuration is versioned, immutable, and traceable."
Thus,configuration and infrastructure must be version-controlled and immutable, never changed directly in production.
References:GitOps Principles (CNCF GitOps Working Group),Principle 2: The desired system state is stored as versioned and immutable.

NEW QUESTION # 63
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. A manual process of managing infrastructure resources using the command line
- D. An approach to managing infrastructure resources using physical hardware only

Answer: B

Explanation:
Infrastructure as Code (IaC)is a foundational practice in GitOps. It involves managing and provisioning infrastructure throughdeclarative, machine-readable filesrather 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,Dis correct.
References:GitOps Related Practices (CNCF GitOps Working Group).

NEW QUESTION # 64
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