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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 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 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 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 4 | <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. |
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| Topic 5 | <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. |
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Linux Foundation Certified GitOps Associate Sample Questions (Q37-Q42):

NEW QUESTION # 37

Which requirement of the GitOps principle declares that Desired State must be versioned?

- A. The Desired State must not be publicly accessible.
- B. The Desired State must be publicly accessible.
- **C. The State Store must retain a complete version history.**
- D. You must use Git in order to be compliant with this principle.

Answer: C

Explanation:

One of the GitOps principles is Versioned and Immutable, which requires that the Desired State is stored in a system that maintains a complete version history. This allows for auditing, traceability, and rollback.

"The Desired State must be stored in a versioned, immutable system. The State Store must retain a complete version history so changes can be audited and previous states can be restored." Thus, the correct answer is B.

References: GitOps Principles (CNCF GitOps Working Group), Principle 2: Versioned and Immutable.

NEW QUESTION # 38

Which GitOps tool has the option for a push-based reconciliation model?

- A. Argo Workflows
- B. Flagger
- C. Flux
- **D. ArgoCD**

Answer: D

Explanation:

Most GitOps tools (e.g., Flux) are pull-based only. However, ArgoCD supports both pull-based reconciliation (via continuous monitoring) and an optional push-based model, where changes can be triggered via webhooks or CI pipelines.

"ArgoCD supports both pull-based reconciliation, where the controller watches the repository, and an optional push-based reconciliation mode triggered by webhooks." Thus, the correct answer is A: ArgoCD.

References: GitOps Tooling (CNCF GitOps Working Group), ArgoCD documentation on reconciliation models.

NEW QUESTION # 39

Which of the following statements accurately describes the role of GitOps in progressive delivery?

- A. GitOps requires end users to manually shift traffic for progressive delivery.
- B. GitOps only works with manual progressive delivery without any automation.

- C. GitOps does not allow end users to perform progressive delivery automatically, only manually.
- D. GitOps allows end users to perform progressive delivery automatically without manually shifting traffic.

Answer: D

Explanation:

Progressive delivery is a GitOps pattern that incrementally rolls out application updates, using methods like canary releases, feature flags, and blue-green deployments. GitOps enhances this by ensuring the rollout is automated and declaratively managed through Git, removing the need for manual traffic switching.

"GitOps enables progressive delivery by declaratively managing rollout strategies such as canary or blue-green deployments. These strategies are applied automatically by controllers, without requiring manual traffic switching." Thus, the correct answer is B.

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

NEW QUESTION # 40

What is Infrastructure as Code (IaC)?

- A. A programming approach to managing and provisioning infrastructure resources through machine-readable definition files
- B. A manual process of managing infrastructure resources using the command line
- C. A methodology for managing infrastructure resources through graphical user interfaces
- D. An approach to managing infrastructure resources using physical hardware only

Answer: A

Explanation:

Infrastructure as Code (IaC) is a foundational practice in GitOps. It involves managing and provisioning infrastructure through declarative, machine-readable files rather 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, D is correct.

References: GitOps Related Practices (CNCF GitOps Working Group).

NEW QUESTION # 41

In the context of GitOps, what is one example of how DevSecOps principles manifested, enhancing the traditional DevOps lifecycle?

- A. GitOps uses DevSecOps to enforce manual security checks at each deployment stage.
- B. GitOps enhances the DevSecOps experience by detecting security policy drift.
- C. DevSecOps in GitOps focuses primarily on post-deployment security audits.
- D. In GitOps, DevSecOps leads to the segregation of security tasks, assigning them exclusively to security teams.

Answer: B

Explanation:

In GitOps, DevSecOps integrates security into the GitOps workflow by treating security policies as code and storing them in Git. This enables automatic detection of security policy drift and ensures that any misconfiguration or violation is reconciled, just like application and infrastructure code.

"GitOps applies DevSecOps by managing security policies as code. This enables detection of drift in security configurations, ensuring environments remain compliant and secure." Thus, the correct answer is A.

References: GitOps Related Practices (CNCF GitOps Working Group), DevSecOps integration.

NEW QUESTION # 42

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