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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 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">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 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 (Q60-Q65):

NEW QUESTION # 60

You are packaging a complex application to deploy to multiple Kubernetes clusters using GitOps. Which of the following would be a suitable solution for this process?

- A. Writing a Dockerfile to build a container image of the application and configuration.
- B. Creating a well-formatted script to deploy the application to the Kubernetes cluster.
- C. Configuring a CI/CD pipeline to build and deploy the application to the Kubernetes cluster automatically.
- **D. Creating a Helm chart to define the application's configuration and dependencies.**

Answer: D

Explanation:

Helm is a Kubernetes package manager widely used in GitOps for packaging, configuring, and deploying complex applications.

Helm charts bundle configuration, dependencies, and Kubernetes manifests into reusable, declarative packages that can be applied across multiple clusters.

"Helm charts provide a way to package Kubernetes applications, defining configuration and dependencies declaratively. This allows consistent deployment across clusters in GitOps workflows." Thus, the correct answer is A.

References:GitOps Tooling (CNCF GitOps Working Group), Helm usage in GitOps.

NEW QUESTION # 61

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

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

Answer: A

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 # 62

What does Pull Automatically refer to?

- **A. Accessing the Desired State from the State Store.**
- B. It always refers to Git pull.
- C. Webhooks informing the system about new commits.
- D. A GET request to a relational database.

Answer: A

Explanation:

The Pull Automatically GitOps principle refers to the way software agents continuously access the Desired State stored in the State Store (e.g., Git). Agents automatically pull the state from the repository and reconcile the system accordingly.

"Software agents automatically pull the desired state declarations from the source of truth (State Store) and continuously reconcile the system to match." Thus, the correct answer is D.

References:GitOps Principles (CNCF GitOps Working Group).

NEW QUESTION # 63

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

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

Answer: C

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 # 64

What is Infrastructure as Code (IaC)?

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

Answer: C

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, Dis correct.

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




NEW QUESTION # 65

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