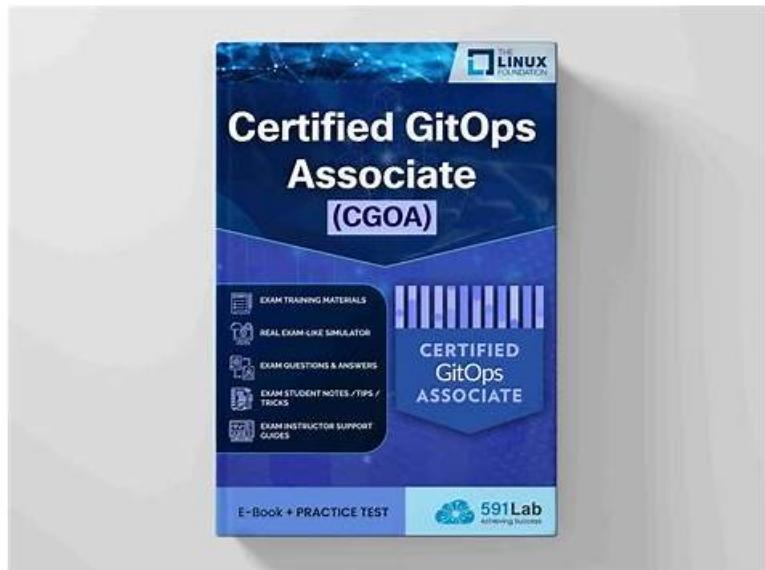


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Linux Foundation CGOA Exam Syllabus Topics:

Topic	Details
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"> 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 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"> 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 5	<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.

Linux Foundation Certified GitOps Associate Sample Questions (Q23-Q28):

NEW QUESTION # 23

You are working on a GitOps deployment and want to manage the configuration of your Kubernetes resources across multiple environments. How does Kustomize help?

- A. Kustomize helps you create and manage Kubernetes resource manifests by providing a graphical user interface (GUI).
- B. Kustomize helps you create and manage Kubernetes resource manifests by providing a way to customize them through patching.**
- C. Kustomize is a tool for deploying infrastructure resources using Terraform/OpenTofu.
- D. Kustomize allows you to package and distribute your application as a Helm chart.

Answer: B

Explanation:

Kustomize is a Kubernetes-native configuration management tool that allows manifest customization without modifying the original YAML files. It uses overlays and patches to adapt configurations for different environments.

"Kustomize provides a declarative way to customize Kubernetes manifests by applying patches and overlays.

This allows managing multiple environments without duplicating manifest files." Thus, the correct answer is D.

References: GitOps Tooling (CNCF GitOps Working Group), Kustomize.

NEW QUESTION # 24

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

Answer: D

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 use webhooks 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 is A.

References: GitOps Principles (CNCF GitOps Working Group), Reconciliation and Webhooks.

NEW QUESTION # 25

In the context of GitOps, what does Continuous mean?

- A. Reconciliation continues to happen.
- B. Reconciliation only happens once.
- C. Reconciliation happens only during instantiation.
- D. Reconciliation must happen instantaneously.

Answer: A

Explanation:

One of the four core GitOps principles is that the system must be Continuously Reconciled. This means reconciliation is not a one-time or on-demand process but happens constantly in the background, ensuring the actual system state remains aligned with the declared desired state.

"GitOps requires that reconciliation is continuous. Software agents continuously compare actual state against desired state and automatically reconcile differences." Thus, the correct answer is C.

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

NEW QUESTION # 26

You are working on a GitOps project and have made some changes to the cluster using kubectl. What is the recommended approach to ensure that your changes are continuously reconciled?

- A. Delete and recreate the cluster from scratch to ensure a clean and controlled state.
- B. Save those changes to the Desired State store and allow the GitOps controller to attempt reconciliation.
- C. Use kubectl to delete all resources that were changed in the cluster and wait for a reconcile.
- D. Reconcile the changes by running a script or command that synchronizes the cluster with the desired state.

Answer: B

Explanation:

In GitOps, Git is the single source of truth. If changes are made manually in the cluster (via kubectl), those changes will drift from the desired state in Git. To ensure consistency, the correct approach is to update the Git repository (Desired State store) so that the reconciler can continuously apply and maintain those changes.

"The desired state must always be declared in Git. Manual changes in the cluster will be overwritten by reconciliation unless they are committed to the Git repository." Thus, the correct answer is B.

References: GitOps Principles (CNCF GitOps Working Group), Drift and Reconciliation Practices.

NEW QUESTION # 27

When using Kustomize, how are resources, configurations, and customizations commonly organized?

- A. In a single configuration file.
- B. By specifying all resources inline in the customization file.
- C. Using a combination of folder directories and referenced folder/file paths.
- D. In separate configuration files for each resource.

Answer: C

Explanation:

Kustomize is a GitOps tool for managing Kubernetes configurations declaratively. It uses a folder structure with configuration files and a `kustomization.yaml` file that references resources and overlays. This enables customization without modifying the base manifests. "Kustomize allows customization of Kubernetes manifests by organizing resources in directories and referencing them through file paths in a kustomization file. This directory-based approach supports overlays, reusability, and modular configuration." Thus, the correct answer is D.

References: GitOps Tooling (CNCF GitOps Working Group), Kustomize practices.

NEW QUESTION # 28

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