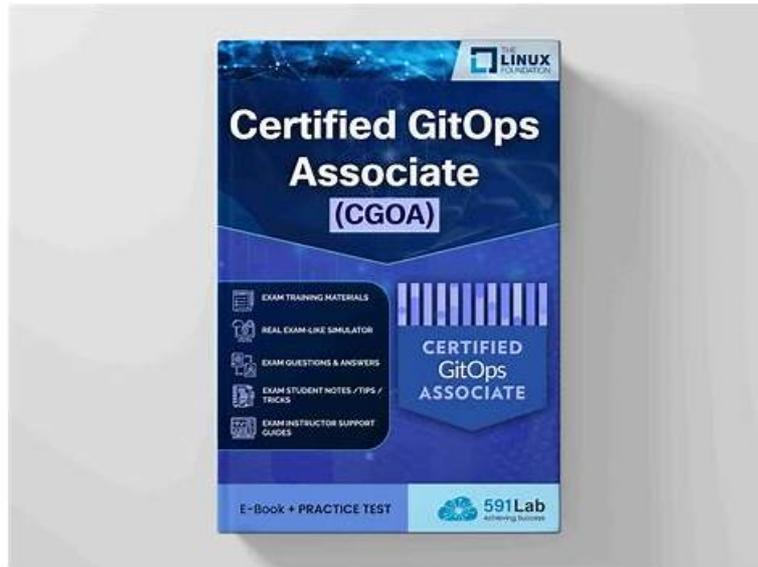


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Linux Foundation CGOA Exam Syllabus Topics:

Topic	Details
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">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"> • 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 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"> • 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 (Q17-Q22):

NEW QUESTION # 17

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

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

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 # 18

In GitOps practices, when does CD take part?

- **A. CD takes part after CI to automate the deployment of applications based on changes in the Git repository.**
- B. CD takes part simultaneously with CI, both components of GitOps practices.
- C. CD takes part before CI stage in order to ensure the successful deployment of applications.
- D. CI plays a significant role in GitOps practices.

Answer: A

Explanation:

In GitOps, Continuous Deployment (CD) follows after Continuous Integration (CI). CI is responsible for building and testing application code, while CD automates the delivery and deployment of these changes into runtime environments. The Git repository serves as the single source of truth, and when CI merges new changes into the main branch, CD reconciles the state of the environment to match what is declared in Git.

"GitOps builds on the principles of DevOps by using Git as the source of truth for declarative infrastructure and applications. CI pipelines handle the integration and testing of code, and CD pipelines or agents automatically reconcile the desired state in Git with the actual state in the cluster." This shows that CD is triggered after CI to handle deployment automation, ensuring systems remain in sync with what is declared in version control.

References: GitOps Principles (CNCF GitOps Working Group), GitOps Working Group Terminology & Principles documents.

NEW QUESTION # 19

How does GitOps handle drift during reconciliation?

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

Answer: A

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 # 20

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

- A. Helm
- B. Kubeflow
- C. Kustomize
- D. Flux

Answer: D

Explanation:

A 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 # 21

In GitOps, what is the process of ensuring the actual state of a system matches its Desired State called?

- A. Monitoring
- B. Reconciliation
- C. Webhooks
- D. Manual Intervention

Answer: B

Explanation:

The process of keeping the actual state in sync with the desired state is called Reconciliation. GitOps controllers (e.g., ArgoCD, Flux) continuously reconcile system resources to match what is declared in Git.

"Reconciliation is the process by which agents compare the actual system state to the desired state and automatically make changes to converge them." Thus, the correct answer is A: Reconciliation.

References: GitOps Terminology (CNCF GitOps Working Group).

NEW QUESTION # 22

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