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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">• 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 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">• 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 (Q25-Q30):

NEW QUESTION # 25

In the context of GitOps, what does Desired State refer to?

- A. The state that the system or application should be in.
- B. The current state of the system or application.
- C. The state that the system or application will be in after all changes are made.
- D. The state that the system or application was in before any changes were made.

Answer: A

Explanation:

The Desired State is the declarative specification stored in Git that defines how the system should look and behave. It is the reference point against which the actual state is continuously reconciled.

"Desired state is the complete declarative specification of a system stored in Git. It defines how the system should be configured and serves as the source of truth for reconciliation." Thus, the correct answer is A.

References: GitOps Terminology (CNCF GitOps Working Group).

NEW QUESTION # 26

You want to create a dashboard to monitor the performance of your application. Which of the following is a key principle of GitOps regarding dashboards?

- A. Dashboards should only be accessible to the development team.
- B. Dashboards declarations should be in the Desired State store.
- C. The operations team should manually update dashboards.
- D. Dashboards should be created using a proprietary tool.

Answer: B

Explanation:

In GitOps, everything that defines the system, including dashboards, must be stored declaratively in Git (the Desired State store). This ensures dashboards are versioned, reproducible, and consistent across environments.

"GitOps requires that all system components, including monitoring and observability configurations such as dashboards, are declared in Git. This ensures they are versioned, immutable, and reproducible." Thus, D is correct.

References: GitOps Principles (CNCF GitOps Working Group).

NEW QUESTION # 27

Which method(s) of accessing the Desired State store does GitOps support?

- A. Neither push nor pull
- B. Replication only
- C. Push method only
- D. Pull is required and push can optionally be used in addition to pull

Answer: D

Explanation:

GitOps requires a pull-based approach as the default model, where agents in the cluster automatically pull desired state from Git. However, push-based triggers (e.g., webhooks) can optionally be used to complement pull-based reconciliation. "Pull-based reconciliation is required in GitOps to ensure automation and security. Push-based triggers may optionally complement this, but the pull model is fundamental." Thus, the correct answer is D.

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

NEW QUESTION # 28

How do you ensure that you are achieving the Pulled Automatically GitOps principle?

- A. By having an operator continuously monitor and pull changes from the source of truth.
- B. By maintaining multiple Git repositories for different aspects of your infrastructure and applications.
- C. By manually triggering deployments and configurations using scripts and commands.
- D. By deploying changes from the version control repository by applying them through an automated pipeline when major updates are needed.

Answer: A

Explanation:

The Pulled Automatically principle in GitOps means that agents inside the runtime environment (e.g., controllers/operators) continuously monitor Git (the source of truth) and automatically pull changes when updates are detected.

"Software agents continuously pull changes from the version control system and reconcile them automatically. This pull-based approach ensures automation, security, and self-healing." Thus, the correct answer is B.

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

NEW QUESTION # 29

In GitOps practices, when does CD take part?

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

Answer: D

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 # 30

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