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Once our professionals find the relevant knowledge on the CGOA exam questions, then the whole research groups will pick out the knowledge points according to the test syllabus. Also, they will also compile some questions about the CGOA practice materials in terms of their experience. Now, we have successfully summarized all knowledge points in line with the CGOA outline. And meanwhile, we keep a close eye on the changes of the exam to make sure what you buy are the latest and valid.

Linux Foundation CGOA Exam Syllabus Topics:

Topic	Details
Topic 1	<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 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">• 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 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 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.

Linux Foundation Certified GitOps Associate Sample Questions (Q38-Q43):

NEW QUESTION # 38

In GitOps, how is the Desired State stored?

- **A. In a way that enforces immutability and versioning.**
- B. In a way that enforces mutability and versioning.
- C. In a way that permits direct modifications to live systems.
- D. In a way that retains only the latest version.

Answer: A

Explanation:

The GitOps principle of Versioned and Immutable requires Desired State to be stored in a way that enforces immutability and versioning. This ensures every change is recorded, auditable, and reversible.

"Desired state must be kept in an immutable, version-controlled system. This guarantees a full history of changes and enables safe rollbacks." Thus, the correct answer is D.

References: GitOps Principles (CNCF GitOps Working Group).

NEW QUESTION # 39

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

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

Answer: C

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 # 40

In the context of GitOps, which of the following is the primary purpose of Desired State?

- A. To store all persistent application data, such as database content.
- B. For monitoring real-time application performance.
- **C. To serve as a blueprint to recreate a system for behavioral consistency.**
- D. To track code changes that developers have made.

Answer: C

Explanation:

The Desired State in GitOps is the declarative specification of how the system should behave. It is stored in Git and serves as the

reference point for reconciliation against the actual state.

"The desired state is a complete specification of the system stored in Git. It acts as the blueprint from which the actual state is continuously reconciled, ensuring the system remains consistent and reproducible." Thus, the primary purpose of Desired State is to act as a blueprint to recreate and ensure consistency of the system.

References: GitOps Terminology (CNCF GitOps Working Group).

NEW QUESTION # 41

In the context of GitOps, what happens to a GitOps-managed Kubernetes cluster if there is drift divergence?

- A. The GitOps-managed Kubernetes cluster rolls back to the previous known state before the drift divergence occurred.
- B. The GitOps-managed Kubernetes cluster ignores the drift divergence and continues to operate as it is.
- C. The GitOps-managed Kubernetes cluster notifies the administrator about the drift divergence and waits for manual intervention.
- **D. The GitOps-managed Kubernetes cluster automatically reconciles the drift divergence to return the cluster to the Desired State.**

Answer: D

Explanation:

A GitOps-managed Kubernetes cluster uses reconciliation loops to continuously compare the actual state of the system with the desired state declared in Git. When drift (divergence between declared configuration and live cluster state) is detected, the GitOps operator automatically reconciles the difference to bring the system back into alignment.

"In GitOps, a reconciliation loop ensures that the desired state as declared in Git is continuously compared with the observed state of the system. If drift is detected, the system automatically takes corrective action to reconcile the difference and restore the declared configuration." This ensures consistency, reliability, and self-healing. Manual intervention is not required for drift correction, as the automated reconciliation is a core principle of GitOps.

References: GitOps Principles (CNCF GitOps Working Group), GitOps Principles Document - Principle 4:

Software agents automatically pull the desired state declarations from the source and continuously observe actual system state, reconciling differences.

NEW QUESTION # 42

What is the main difference between Terraform/OpenTofu and Ansible?

- A. Terraform/OpenTofu uses a configuration language called CUE, while Ansible uses HCL.
- B. Ansible is written in Golang, while Terraform/OpenTofu is written in Python.
- C. Terraform/OpenTofu is imperative in nature, while Ansible is declarative.
- **D. Terraform/OpenTofu stores the state of each resource, while Ansible works in a fire-and-forget mode.**

Answer: D

Explanation:

Terraform (or OpenTofu) uses a declarative model and maintains a state file to track the current status of resources, enabling it to plan and reconcile changes. Ansible, by contrast, is more procedural and executes tasks in a fire-and-forget manner, without tracking persistent resource state.

"Terraform maintains state for each managed resource, enabling planned, consistent changes. Ansible executes tasks without tracking resource state, working in a fire-and-forget model." Thus, the correct answer is B.

References: GitOps Tooling (CNCF GitOps Working Group).

NEW QUESTION # 43

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