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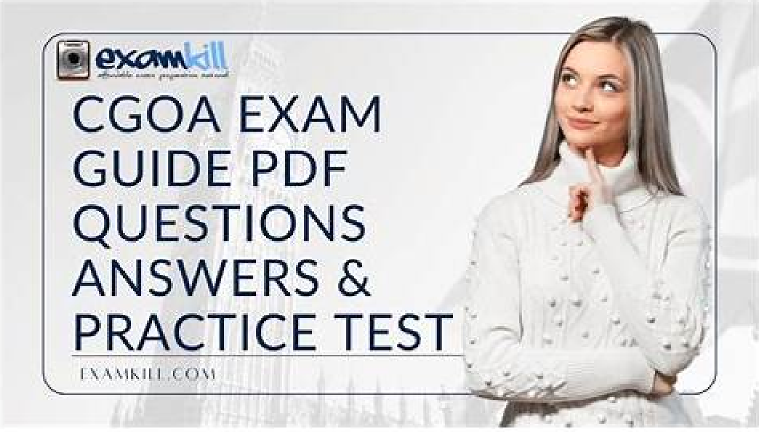

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Linux Foundation CGOA Exam Syllabus Topics:

Topic	Details
Topic 1	• 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	• 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	• 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	• 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	• 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 (Q31-Q36):

NEW QUESTION # 31
In GitOps practices, when does CD take part?

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

Answer: C

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 # 32
In GitOps, what does it mean toContinuously Reconcile?

- A. Monitor the system for any unauthorized changes and revert them.
- B. Perform regular backups of Git repositories.
- C. Regularly update Git repositories with the latest changes from external sources.
- D. Automatically compare and adjust the system state as needed.

Answer: D

Explanation:
Continuous reconciliationis another core GitOps principle. It means that software agents (operators or controllers) run loops that continuously observe the live system and compare it against the desired state declared in Git. If any divergence (drift) is found, the agentautomatically reconcilesthe system to match the declared configuration.
"Software agents continuously observe the actual system state and compare it with the desired state declared in Git. If a divergence is detected, the agents automatically reconcile the difference to bring the system back into alignment." This providesautomation, consistency, and self-healing, which are hallmarks of GitOps.
References:GitOps Principles (CNCF GitOps Working Group),Principle 4: Continuously reconciled.

NEW QUESTION # 33
In the context of GitOps, what happens to a GitOps-managed Kubernetes cluster if there is drift divergence?

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

Answer: C

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 # 34
Which deployment and release pattern involves gradually shifting traffic from an old version of an application to a new one?

- A. Canary Deployment
- B. Red/Black Deployment
- C. Blue-Green Deployment
- D. A/B Deployment

Answer: A

Explanation:
ACanary Deploymentgradually introduces a new application version to a small subset of users before expanding to the full user base. This pattern allows testing and validation in production while reducing risk.
"Canary deployments progressively roll out changes to a small group of users, monitoring for issues before routing all traffic to the new version. This gradual shift minimizes risk and ensures safer releases." Thus, the correct answer isB.
References:GitOps Patterns (CNCF GitOps Working Group), Progressive Delivery.

NEW QUESTION # 35
What is the main difference between Terraform/OpenTofu and Ansible?

- A. Terraform/OpenTofu is imperative in nature, while Ansible is declarative.
- B. Ansible is written in Golang, while Terraform/OpenTofu is written in Python.
- C. Terraform/OpenTofu uses a configuration language called CUE, while Ansible uses HCL.
- 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 astate fileto track the current status of resources, enabling it to plan and reconcile changes.Ansible, by contrast, is more procedural and executes tasks in afire-and-forgetmanner, 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 isB.
References:GitOps Tooling (CNCF GitOps Working Group).

NEW QUESTION # 36
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