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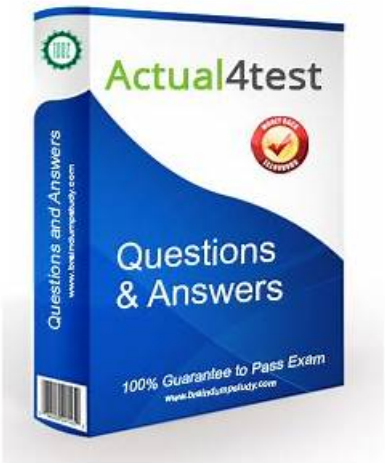

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Linux Foundation CGOA Exam Syllabus Topics:

Topic	Details
Topic 1	• 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	• 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	• 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	• 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	• 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.

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Linux Foundation Certified GitOps Associate Sample Questions (Q51-Q56):

NEW QUESTION # 51
In GitOps practices, when does CD take part?

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

Answer: B

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 # 52
In GitOps, how are the Desired State declarations pulled from the source?

- A. Automatically by software agents.
- B. By sending a request to the source repository.
- C. Manually triggered by a webhook.
- D. With a CLI command or API call.

Answer: A

Explanation:
A fundamental GitOps principle is that reconciliation isautomated and continuous. Software agents (e.g., controllers like ArgoCD or Flux) continuously pull desired state declarations from Git repositories and reconcile them with the actual state.
"Software agents automatically pull the desired state declarations from the source of truth and continuously reconcile the actual state to match." Thus, the correct answer isC.
References:GitOps Principles (CNCF GitOps Working Group),Principle 4: Continuously reconciled.

NEW QUESTION # 53
How do you ensure that you are achieving thePulled AutomaticallyGitOps principle?

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

Answer: B

Explanation:
ThePulled Automaticallyprinciple in GitOps means that agents inside the runtime environment (e.g., controllers/operators) continuously monitor Git (the source of truth) andautomatically pull changeswhen 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 isB.
References:GitOps Principles (CNCF GitOps Working Group),Principle 4: Continuously reconciled and pulled automatically.

NEW QUESTION # 54
What does the GitOps reconciliation loop ensure?

- A. When manifests have errors, it will ensure that as much as possible still gets applied.
- B. That the Desired State is instantaneously applied to the system.
- C. Only applies changes but does not remove resources that used to be part of the Desired State.
- D. The Desired State is applied to the system when the current system state diverges from the Desired State.

Answer: D

Explanation:
The reconciliation loop is a fundamental GitOps principle. It continuously compares thedesired state(stored in Git) with theactual state(running in the system). When a divergence (drift) is detected, the reconciler automatically corrects the system to match the desired state.
"The reconciliation loop ensures the system is continuously converging toward the declared desired state.
Whenever the actual state deviates, the loop reconciles the system to match the desired state." Thus, the correct answer isC.
References:GitOps Principles (CNCF GitOps Working Group).

NEW QUESTION # 55
Which of the following is an example of an external reconciler?

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

Answer: C

Explanation:
Areconcilerensures that the actual system matches the desired state declared in Git. External reconcilers run outside the core cluster orchestration process.Fluxis 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: Fluxis correct.

References:GitOps Tooling (CNCF GitOps Working Group).

NEW QUESTION # 56
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