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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	• 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	• 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 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	• 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.

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Linux Foundation Certified GitOps Associate Sample Questions (Q50-Q55):

NEW QUESTION # 50
Which statement describes Blue-Green deployments?

- A. Blue-Green deployments involve deploying different versions of an application in other regions and routing traffic based on geographic location.
- B. Blue-Green deployments involve deploying only one version at a time.
- C. Blue-Green deployments involve deploying the new version of an application to a subset of users and gradually expanding the deployment based on feedback.
- D. Blue-Green deployments involve deploying the new version of an application alongside the old version and switching traffic to the latest version once it is ready.

Answer: D

Explanation:
Blue-Green deployments are aprogressive delivery patternwhere two environments exist: Blue (current version) and Green (new version). The new version is deployed in parallel, and once validated, traffic is switched over from Blue to Green.
"Blue-Green deployments provide zero-downtime releases by running two production environments: one active and one idle. A new version is deployed to the idle environment, tested, and when ready, traffic is switched to it." Thus, the correct description isA.
References:GitOps Patterns (CNCF GitOps Working Group), Progressive Delivery patterns.

NEW QUESTION # 51
You are working on a GitOps project and have made some changes to the cluster using kubectl. What is the recommended approach to ensure that your changes are continuously reconciled?

- A. Delete and recreate the cluster from scratch to ensure a clean and controlled state.
- B. Save those changes to the Desired State store and allow the GitOps controller to attempt reconciliation.
- C. Reconcile the changes by running a script or command that synchronizes the cluster with the desired state.
- D. Use kubectl to delete all resources that were changed in the cluster and wait for a reconcile.

Answer: B

Explanation:
In GitOps,Git is the single source of truth. If changes are made manually in the cluster (viakubectl), those changes will drift from the desired state in Git. To ensure consistency, the correct approach is toupdate the Git repository (Desired State store)so that the reconciler can continuously apply and maintain those changes.
"The desired state must always be declared in Git. Manual changes in the cluster will be overwritten by reconciliation unless they are committed to the Git repository." Thus, the correct answer isB.
References:GitOps Principles (CNCF GitOps Working Group), Drift and Reconciliation Practices.

NEW QUESTION # 52
When are progressive delivery patterns useful in software development and deployment?

- A. Progressive delivery patterns are only useful for one-time, single-deployment scenarios, not ongoing, continuous delivery.
- B. Progressive delivery patterns are primarily beneficial for small development teams rather than for large organizations.
- C. Progressive delivery patterns are useful during initial project development instead of in subsequent phases.
- D. Progressive delivery patterns are useful in several software development and deployment scenarios, as they offer advantages such as risk reduction, improved quality, and better user experience.

Answer: D

Explanation:
Progressive deliveryis a GitOps pattern used to release software gradually, reducing risks associated with deploying new versions.

Techniques such as canary releases, feature flags, and blue-green deployments allow teams to incrementally roll out changes, validate functionality with subsets of users, and minimize potential disruptions.
"Progressive delivery builds on continuous delivery by enabling safer, incremental rollouts. This pattern reduces risk, improves reliability, enhances user experience, and allows for validation of features with a portion of users before wider release." Therefore, progressive delivery is useful inmultiple scenarios(not just one-time deployments or small teams), making optionCcorrect.
References:GitOps Patterns (CNCF GitOps Working Group), Progressive Delivery Patterns documentation.

NEW QUESTION # 53
Which of the following is an example of an external reconciler?

- A. Helm
- B. Kustomize
- 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 # 54
In the context of GitOps, what is one example of how DevSecOps principles manifested, enhancing the traditional DevOps lifecycle?

- A. GitOps enhances the DevSecOps experience by detecting security policy drift.
- B. In GitOps, DevSecOps leads to the segregation of security tasks, assigning them exclusively to security teams.
- C. DevSecOps in GitOps focuses primarily on post-deployment security audits.
- D. GitOps uses DevSecOps to enforce manual security checks at each deployment stage.

Answer: A

Explanation:
In GitOps,DevSecOpsintegrates security into the GitOps workflow by treating security policies as code and storing them in Git. This enables automatic detection ofsecurity policy driftand ensures that any misconfiguration or violation is reconciled, just like application and infrastructure code.
"GitOps applies DevSecOps by managing security policies as code. This enables detection of drift in security configurations, ensuring environments remain compliant and secure." Thus, the correct answer isA.
References:GitOps Related Practices (CNCF GitOps Working Group), DevSecOps integration.

NEW QUESTION # 55
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