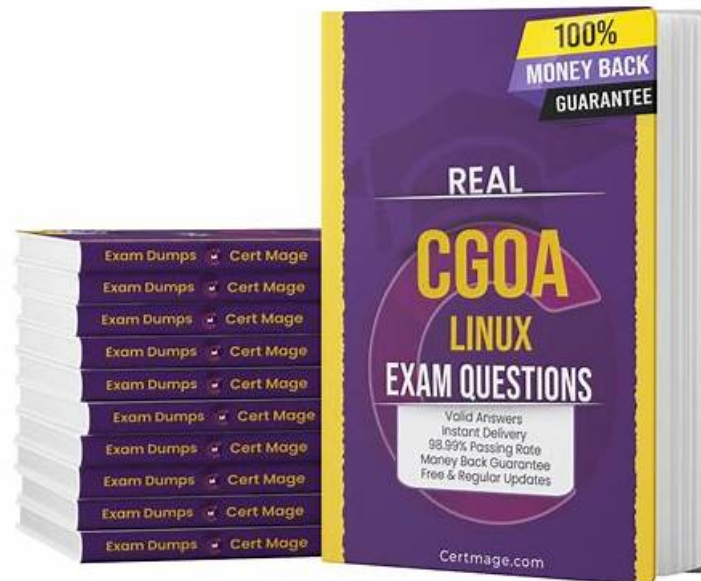


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Linux Foundation CGOA Exam Syllabus Topics:

Topic	Details

Topic 1	<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 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 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 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 (Q30-Q35):

NEW QUESTION # 30

You are working on a GitOps project and want to trigger a reconcile process before the next scheduled reconciliation. What is the recommended way to do this?

- A. Schedule a cron job to run the reconcile process periodically, using RBAC to authenticate.
- B. Manually execute a script to initiate the reconcile process on the cluster using GitOps tool CLI commands.
- **C. Use a webhook to trigger the reconcile process based on events or changes in the Git repository.**
- D. Adjust the reconcile process interval time.

Answer: C

Explanation:

Although reconciliation is continuous in GitOps, tools often allow reconciliation to be triggered earlier than the normal polling interval. The recommended approach is to use webhooks from the Git repository, which notify the GitOps controller of changes and trigger an immediate reconcile.

"While reconciliation loops continuously compare desired and actual state, reconciliation can be triggered sooner by webhooks from version control events, ensuring timely application of changes." Thus, the correct answer is A.

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

NEW QUESTION # 31

In the context of GitOps, what does Continuous mean?

- A. Reconciliation happens only during instantiation.
- B. Reconciliation must happen instantaneously.
- **C. Reconciliation continues to happen.**
- D. Reconciliation only happens once.

Answer: C

Explanation:

One of the four core GitOps principles is that the system must be Continuously Reconciled. This means reconciliation is not a one-time or on-demand process but happens constantly in the background, ensuring the actual system state remains aligned with the declared desired state.

"GitOps requires that reconciliation is continuous. Software agents continuously compare actual state against desired state and automatically reconcile differences." Thus, the correct answer is C.

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

NEW QUESTION # 32

You want to route alerts from Prometheus to Slack in your GitOps workflow. Which tool can you use to achieve this?

- A. Jenkins X
- B. Slack
- C. Prometheus
- **D. Alertmanager**

Answer: D

Explanation:

Prometheus is commonly used in GitOps for monitoring.Alertmanageris the tool integrated with Prometheus to handle alert routing. It supports sending alerts to external systems such as Slack, PagerDuty, or email.

"Prometheus generates alerts, which are routed and managed by Alertmanager. Alertmanager can integrate with messaging tools like Slack to deliver alerts in real time." Thus, the correct answer isA: Alertmanager.

References:GitOps Tooling (CNCF GitOps Working Group), Monitoring and Alerting practices.

NEW QUESTION # 33

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

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,Dis correct.

References:GitOps Principles (CNCF GitOps Working Group).

NEW QUESTION # 34

When are progressive delivery patterns useful in software development and deployment?

- **A. 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.**
- B. Progressive delivery patterns are useful during initial project development instead of in subsequent phases.
- C. Progressive delivery patterns are only useful for one-time, single-deployment scenarios, not ongoing, continuous delivery.
- D. Progressive delivery patterns are primarily beneficial for small development teams rather than for large organizations.

Answer: A

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.

