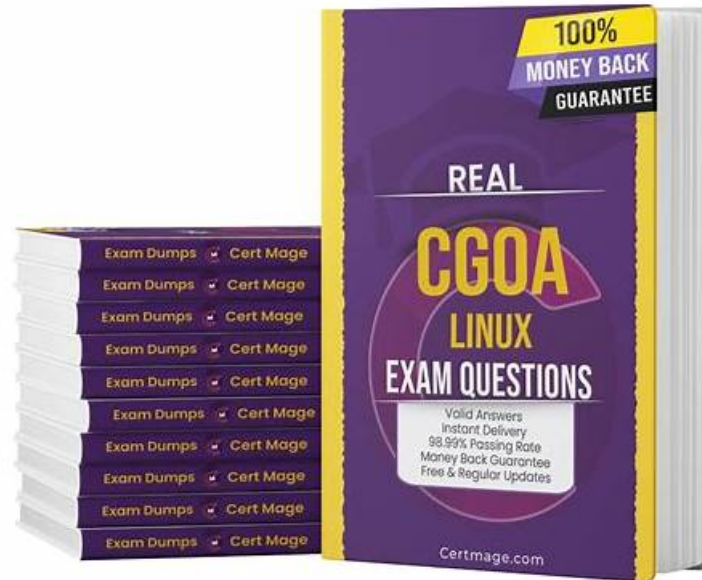


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We can say that the Linux Foundation CGOA exam practice questions are real, valid, and updated Certified GitOps Associate (CGOA) exam questions that will provide you with everything that you need to learn to prepare and pass the CGOA exam. The Linux Foundation CGOA Exam Questions will not only assist you in Certified GitOps Associate (CGOA) exam preparation but also give you sight knowledge about the Certified GitOps Associate (CGOA) exam topics that will help you in your professional career.

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"> 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 3	<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 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

- **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 (Q28-Q33):

NEW QUESTION # 28

Which requirement of the GitOps principle declares that Desired State must be versioned?

- A. You must use Git in order to be compliant with this principle.
- B. The Desired State must not be publicly accessible.
- **C. The State Store must retain a complete version history.**
- D. The Desired State must be publicly accessible.

Answer: C

Explanation:

One of the GitOps principles is Versioned and Immutable, which requires that the Desired State is stored in a system that maintains a complete version history. This allows for auditing, traceability, and rollback.

"The Desired State must be stored in a versioned, immutable system. The State Store must retain a complete version history so changes can be audited and previous states can be restored." Thus, the correct answer is B.

References: GitOps Principles (CNCf GitOps Working Group), Principle 2: Versioned and Immutable.

NEW QUESTION # 29

Which statement describes Blue-Green deployments?

- A. Blue-Green deployments involve deploying only one version at a time.
- B. Blue-Green deployments involve deploying the new version of an application to a subset of users and gradually expanding the deployment based on feedback.
- C. Blue-Green deployments involve deploying different versions of an application in other regions and routing traffic based on geographic location.
- **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 a progressive delivery pattern where 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 is A.

References: GitOps Patterns (CNCf GitOps Working Group), Progressive Delivery patterns.

NEW QUESTION # 30

Would you implement DevSecOps culture in CI/CD pipelines?

- A. No, because CI/CD systems are incompatible with the DevSecOps culture.
- B. No, because CI/CD systems are totally secure by design.
- C. No, DevSecOps focuses only on security outside of CI/CD pipelines.
- **D. Yes, DevSecOps is essential for CI/CD pipelines. It helps build software without any security issues.**

Answer: D

Explanation:

DevSecOps integrates security into the DevOps culture and CI/CD pipelines. Instead of treating security as an afterthought, DevSecOps ensures security checks, policies, and automated validations are embedded throughout the CI/CD process.

"DevSecOps emphasizes shifting security left, integrating security testing, validation, and compliance into every stage of the CI/CD pipeline. This ensures vulnerabilities are detected early and software is delivered securely." Thus, Dis correct: DevSecOps culture is essential for CI/CD pipelines to ensure security is baked into software delivery.

References: GitOps Related Practices (CNCF GitOps Working Group), DevSecOps in CI/CD.

NEW QUESTION # 31

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 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 ignores the drift divergence and continues to operate as it is.

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 # 32

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 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 only useful for one-time, single-deployment scenarios, not ongoing, continuous delivery.

Answer: A

Explanation:

Progressive delivery is 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 in multiple scenarios (not just one-time deployments or small teams), making option C correct.

References: GitOps Patterns (CNCF GitOps Working Group), Progressive Delivery Patterns documentation.

NEW QUESTION # 33

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