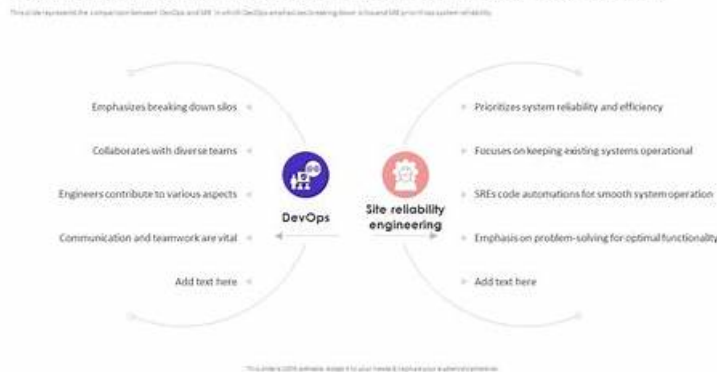


DevOps and Site Reliability CGOA free valid dumps & Linux Foundation CGOA actual pdf exam

Comparison between DevOps and Site reliability engineering



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Preparing for the Certified GitOps Associate (CGOA) test can be challenging, especially when you are busy with other responsibilities. Candidates who don't use CGOA dumps fail in the CGOA examination and waste their resources. Using updated and valid CGOA Questions; can help you develop skills essential to achieve success in the CGOA certification exam.

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"> 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 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"> 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	<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.

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Linux Foundation Certified GitOps Associate Sample Questions (Q12-Q17):

NEW QUESTION # 12

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

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

Answer: D

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 # 13

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 in several software development and deployment scenarios, as they offer advantages such as risk reduction, improved quality, and better user experience.**
- D. Progressive delivery patterns are useful during initial project development instead of in subsequent phases.

Answer: C

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 # 14

Which of these is an advantage of using a declarative configuration for your Desired State?

- **A. Using widely adopted community tools for reconciling actual state is less work than maintaining custom imperative scripts.**
- B. Declarative configuration allows you to execute code locally more efficiently to make desired changes to your running system.
- C. Declarative configuration helps you include dynamic scripting that guides an application through a step-by-step process.
- D. Declarative configuration lets you specify complex if/else logic within custom code.

Answer: A

Explanation:

Declarative configuration describes what the system should look like, not how to achieve it. This enables the use of standard reconciliation tools (like ArgoCD or Flux) to manage the system automatically, removing the burden of writing and maintaining imperative scripts.

"Declarative configuration enables systems to be managed by generic reconciliation tools rather than bespoke scripts, reducing operational overhead and increasing reliability." Thus, the correct answer is B.

References: GitOps Principles (CNCF GitOps Working Group), Declarative Systems.

NEW QUESTION # 15

Would you implement DevSecOps culture in CI/CD pipelines?

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

Answer: A

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 # 16

Which of the following statements best describes the relationship between DevOps and GitOps?

- A. DevOps and GitOps are two completely separate concepts with no relation to each other.
- B. GitOps is a set of principles to guide modern DevOps in practice.
- C. DevOps and GitOps are interchangeable terms used to describe the same concept and principles.
- D. DevOps and GitOps are competing methodologies, and organizations must choose one over the other.

Answer: B

Explanation:

GitOps is not a replacement for DevOps. Instead, it is an evolution and practical implementation of DevOps principles, using Git as the single source of truth and continuous reconciliation as the operational model.

"GitOps builds on the foundation of DevOps by providing a framework to put its principles into practice. It leverages Git and declarative reconciliation to realize DevOps goals." Thus, the best description of the relationship is B.

References: GitOps Related Practices (CNCF GitOps Working Group).

NEW QUESTION # 17

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