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Linux Foundation CGOA Exam Syllabus Topics:

| Topic | Details |
|---------|--|
| Topic 1 | <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 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">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 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">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. |

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Linux Foundation Certified GitOps Associate Sample Questions (Q39-Q44):

NEW QUESTION # 39

In GitOps practices, when does CD take part?

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

Answer: A

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 # 40

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. Prometheus
- C. Slack
- D. Alertmanager

Answer: D

Explanation:

Prometheus is commonly used in GitOps for monitoring. Alertmanager is 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 is A: Alertmanager.

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

NEW QUESTION # 41

What is one of the key benefits of a pull-based reconciliation approach to configuration management?

- A. Simplified troubleshooting and debugging processes.
- B. Immediate response time to configuration changes.
- C. The CI has access credentials to the running system.
- D. Agents can access the Desired State at any time, not only when an event is triggered.

Answer: D

Explanation:

In GitOps, the pull-based reconciliation approach means that agents continuously monitor the Desired State in Git. Unlike push-based systems, which only act when triggered, pull-based systems can reconcile at any time, providing resilience, self-healing, and security.

(since no external system needs direct access to the cluster).

"In a pull-based model, reconciliation agents continuously fetch and compare the desired state, enabling self-healing and ensuring the desired configuration is accessible at all times." Thus, the correct answer is B.

References: GitOps Principles (CNCF GitOps Working Group), Pull vs. Push reconciliation models.

NEW QUESTION # 42

Which of the following statements accurately describes the role of GitOps in progressive delivery?

- A. GitOps allows end users to perform progressive delivery automatically without manually shifting traffic.
- B. GitOps does not allow end users to perform progressive delivery automatically, only manually.
- C. GitOps requires end users to manually shift traffic for progressive delivery.
- D. GitOps only works with manual progressive delivery without any automation.

Answer: A

Explanation:

Progressive delivery is a GitOps pattern that incrementally rolls out application updates, using methods like canary releases, feature flags, and blue-green deployments. GitOps enhances this by ensuring the rollout is automated and declaratively managed through Git, removing the need for manual traffic switching.

"GitOps enables progressive delivery by declaratively managing rollout strategies such as canary or blue-green deployments. These strategies are applied automatically by controllers, without requiring manual traffic switching." Thus, the correct answer is B.

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

NEW QUESTION # 43

In GitOps, what does it mean to continuously reconcile?

- A. Perform regular backups of Git repositories.
- B. Automatically compare and adjust the system state as needed.
- C. Monitor the system for any unauthorized changes and revert them.
- D. Regularly update Git repositories with the latest changes from external sources.

Answer: B

Explanation:

Continuous reconciliation is another core GitOps principle. It means that software agents (operators or controllers) run loops that continuously observe the live system and compare it against the desired state declared in Git. If any divergence (drift) is found, the agent automatically reconciles the system to match the declared configuration.

"Software agents continuously observe the actual system state and compare it with the desired state declared in Git. If a divergence is detected, the agents automatically reconcile the difference to bring the system back into alignment." This provides automation, consistency, and self-healing, which are hallmarks of GitOps.

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

NEW QUESTION # 44

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