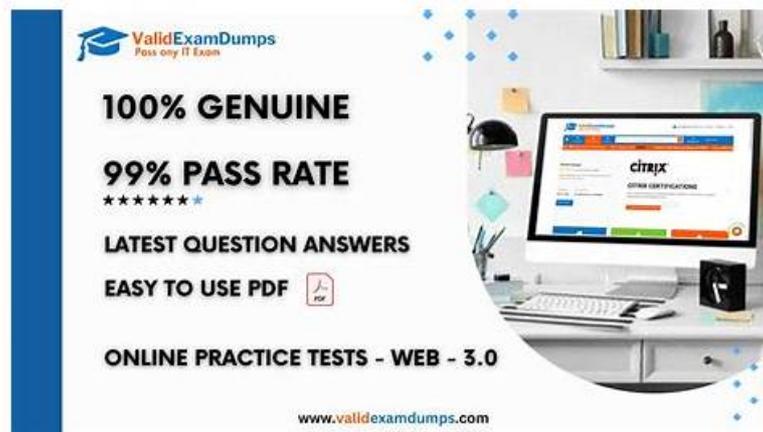


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Linux Foundation Certified GitOps Associate Sample Questions (Q16-Q21):

NEW QUESTION # 16

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 ignores the drift divergence and continues to operate as it is.
- C. The GitOps-managed Kubernetes cluster notifies the administrator about the drift divergence and waits for manual intervention.
- **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 # 17

Why is the feedback loop important for reconciliation?

- A. To trigger an alert if a change is detected, and log the event to the log aggregation service.
- B. To analyze state-sync logging information and perform a sync.
- C. To determine if a reconciliation is needed and whether a sync should be partial or complete.
- D. Feedback loop is not important for reconciliation.

Answer: C

Explanation:

The feedback loop is critical in GitOps reconciliation. It continuously monitors the system's actual state and compares it to the desired state. This loop determines when reconciliation is required and whether a full or partial synchronization is necessary.

"The feedback loop in reconciliation continuously observes the actual state. It determines if reconciliation is required, and informs whether to perform a partial or full sync to align with the declared desired state." Thus, the correct answer is A.

References: GitOps Related Practices (CNCF GitOps Working Group), Reconciliation Feedback Loops.

NEW QUESTION # 18

You are implementing GitOps in your organization and have configured the Desired State of your applications in a Git repository. However, during the deployment process, you encounter an error in the configuration. What is the recommended action in this scenario?

- A. Raise a ticket with the development team to fix the error in the configuration file.
- B. Make a call to the Kubernetes API with the correction.
- C. Roll back the deployment to the previous working version while investigating the error in the configuration file.
- D. Continue to monitor the issue and proceed with the deployment, as it may not significantly impact the application.

Answer: C

Explanation:

GitOps emphasizes immutability and auditability. If an error occurs in the configuration stored in Git, the system should be rolled back to the last known good state while the error is fixed. This preserves system reliability and aligns with the GitOps principle of rollback through version control.

"With Git as the source of truth, if an error is introduced, the system can be rolled back by reverting to a previous commit. This ensures stability while the faulty configuration is corrected." Thus, the recommended action is C: Roll back to the previous working version.

References: GitOps Principles (CNCF GitOps Working Group).

NEW QUESTION # 19

What is the main difference between Terraform/OpenTofu and Ansible?

- A. Terraform/OpenTofu stores the state of each resource, while Ansible works in a fire-and-forget mode.
- B. Terraform/OpenTofu is imperative in nature, while Ansible is declarative.
- C. Ansible is written in Golang, while Terraform/OpenTofu is written in Python.
- D. Terraform/OpenTofu uses a configuration language called CUE, while Ansible uses HCL.

Answer: A

Explanation:

Terraform (or OpenTofu) uses a declarative model and maintains a state file to track the current status of resources, enabling it to plan and reconcile changes. Ansible, by contrast, is more procedural and executes tasks in a fire-and-forget manner, without tracking persistent resource state.

"Terraform maintains state for each managed resource, enabling planned, consistent changes. Ansible executes tasks without tracking resource state, working in a fire-and-forget model." Thus, the correct answer is B.
References: GitOps Tooling (CNCF GitOps Working Group).

NEW QUESTION # 20

In GitOps, which option describes State Store management?

- A. Storing state information in a version control system.
- B. Storing state information in a centralized database.
- C. Storing state information in a relational database.
- D. Storing state information in a distributed file system.

Answer: A

Explanation:

The State Store is typically implemented using a version control system (VCS) such as Git. This ensures that the system's state is auditable, versioned, and immutable. Other systems like databases or distributed file systems do not meet the immutability and versioning requirements of GitOps.

"In GitOps, the desired state must be stored in a version control system. This serves as the State Store, providing a complete, immutable, and auditable history of changes." Thus, the correct answer is D: version control system.

References: GitOps Terminology (CNCF GitOps Working Group).

NEW QUESTION # 21

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