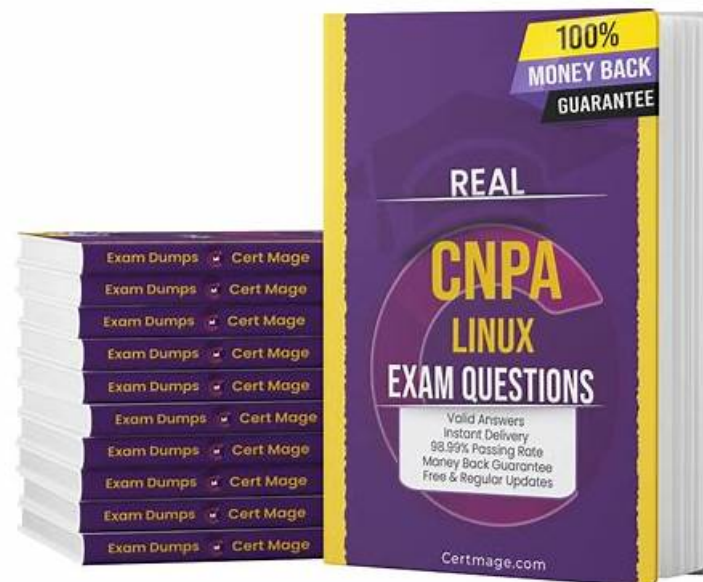


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Linux Foundation Certified Cloud Native Platform Engineering Associate Sample Questions (Q76-Q81):

NEW QUESTION # 76

In a GitOps workflow, how should application environments be managed when promoting an application from staging to production?

- A. Create a new environment for production each time an application is updated.
- **B. Merge changes and let a tool handle the deployment**
- C. Manually update the production environment configuration files.
- D. Use a tool to package the application and deploy it directly to production.

Answer: B

Explanation:

In GitOps workflows, the source of truth for environments is stored in Git. Promotion from staging to production is managed by merging changes into the production branch or repository. Option A is correct because once changes are merged, the GitOps operator (e.g., Argo CD, Flux) automatically detects the updated desired state in Git and reconciles it with the production environment.

Option B (creating new environments each time) is inefficient and unnecessary. Option C (manual updates) violates GitOps principles of automation and auditability. Option D (direct deployments) reverts to a push- based CI/CD model rather than GitOps' pull-based reconciliation.

By relying on Git as the single source of truth, GitOps ensures version control, auditability, and rollback capabilities. This allows consistent, reproducible promotion between environments while reducing human error.

References:- CNCF GitOps Principles- CNCF Platforms Whitepaper- Cloud Native Platform Engineering Study Guide

NEW QUESTION # 77

What is the main benefit of using minimal base container images and SBOM attestation practices in CI/CD pipelines?

- A. Reducing the size of container images and therefore storage costs.
- **B. Reducing the number of security vulnerabilities within container images.**
- C. Checking for duplicate libraries and that latest versions are being used.
- D. Giving developers the maximum flexibility in what to include.

Answer: B

Explanation:

The use of minimal base container images and Software Bill of Materials (SBOM) attestation is a best practice for strengthening software supply chain security. Option B is correct because smaller base images contain fewer components, which inherently reduces the attack surface and the number of potential vulnerabilities. SBOMs, meanwhile, provide a detailed inventory of included libraries and dependencies, enabling vulnerability scanning, license compliance, and traceability.

Option A is only a partial benefit, not the primary goal. Option C (maximum flexibility) contradicts the principle of minimal images, which deliberately restrict included software. Option D (reducing storage costs) may be a side effect but is not the core benefit in a security-focused context.

By combining minimal images with SBOM practices, platform teams ensure stronger compliance with supply chain security frameworks, enable early detection of vulnerabilities in CI/CD pipelines, and support fast remediation. This is emphasized in CNCF security and platform engineering guidance as a way to align with zero-trust principles.

References:- CNCF Supply Chain Security Whitepaper- CNCF Platforms Whitepaper- Cloud Native Platform Engineering Study Guide

NEW QUESTION # 78

As a platform engineer, a critical application has been deployed using Helm, but a recent update introduced a severe bug. To quickly restore the application to its previous stable version, which Helm command should be used?

- A. `helm template <release_name>`
- **B. `helm rollback <release_name> <revision>`**
- C. `helm uninstall <release_name>`
- D. `helm upgrade --force <revision>`

Answer: B

Explanation:

Helm provides native support for managing versioned releases, allowing easy rollback in case of issues.

Option A is correct because the helm rollback <release_name> <revision> command reverts the deployment to a previously known stable release without requiring a redeployment from scratch. This ensures fast recovery and minimizes downtime after a faulty upgrade.

Option B (helm upgrade --force) attempts to reapply an upgrade but does not restore the previous version.

Option C (helm template) only renders Kubernetes manifests from charts and does not affect running releases.

Option D (helm uninstall) removes the release entirely, which is not suitable for quick recovery.

Rollback functionality is essential in platform engineering for resilience and rapid mitigation of production issues. By using helm rollback, teams align with best practices for safe, controlled release management in Kubernetes environments.

References:- CNCF Helm Documentation- CNCF Platforms Whitepaper- Cloud Native Platform Engineering Study Guide

NEW QUESTION # 79

In the context of OpenTelemetry, which of the following is considered one of the supported signals of observability?

- A. Databases
- **B. Traces**
- C. User Interface
- D. Networking

Answer: B

Explanation:

OpenTelemetry is a CNCF project providing standardized APIs and SDKs for collecting observability data.

Among its supported telemetry signals are metrics, logs, and traces. Option C is correct because traces are a core OpenTelemetry signal type that captures the journey of requests across distributed systems, making them vital for detecting latency, dependencies, and bottlenecks.

Option A (user interface), Option B (networking), and Option D (databases) represent system components or domains, not observability signals. While OpenTelemetry can instrument applications in these areas, it expresses data through its standard telemetry signals.

By supporting consistent collection of logs, metrics, and traces, OpenTelemetry enables observability pipelines to integrate seamlessly with different backends while avoiding vendor lock-in. Traces specifically provide visibility into distributed microservices, which is critical in cloud native environments.

References:- CNCF Observability Whitepaper- OpenTelemetry CNCF Project Documentation- Cloud Native Platform Engineering Study Guide

NEW QUESTION # 80

If you update a Deployment's replica count from 3 to 5, how does the reconciliation loop respond?

- A. It will delete the Deployment and require you to re-create it with 5 replicas.
- B. It will restart the existing Pods before adding any new Pods.
- **C. It will create new Pods to meet the new replica count of 5.**
- D. It will wait for an admin to manually add two more Pod definitions.

Answer: C

Explanation:

The Kubernetes reconciliation loop ensures that the actual state of a resource matches the desired state defined in its manifest. If the replica count of a Deployment is changed from 3 to 5, option B is correct:

Kubernetes will automatically create two new Pods to satisfy the new desired replica count.

Option A is incorrect because Deployments are not deleted; they are updated in place. Option C contradicts Kubernetes' declarative model-no manual intervention is required. Option D is wrong because Kubernetes does not restart existing Pods unless necessary; it simply adds additional Pods.

This reconciliation process is core to Kubernetes' declarative infrastructure approach, where desired states are continuously monitored and enforced. It reduces human toil and ensures consistency, making it fundamental for platform engineering practices like GitOps.

References:- CNCF Kubernetes Documentation- CNCF GitOps Principles- Cloud Native Platform Engineering Study Guide

NEW QUESTION # 81

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