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Quiz Linux Foundation - CNPA - Valid New Certified Cloud Native Platform Engineering Associate Test Notes

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Linux Foundation Certified Cloud Native Platform Engineering Associate

Sample Questions (Q67-Q72):

NEW QUESTION # 67

In the context of Agile methodology, which principle aligns best with DevOps practices in platform engineering?

- A. Teams should strictly adhere to initial project plans without making adjustments during development.
- B. Development and operations teams should remain separate to maintain clear responsibilities.
- **C. Teams should continuously gather feedback and iterate on their work to improve outcomes.**
- D. Customer involvement should be limited during the development process to avoid disruptions.

Answer: C

Explanation:

Agile and DevOps share the principle of continuous improvement through rapid feedback and iteration.

Option B is correct because gathering feedback continuously and iterating aligns directly with DevOps practices such as CI/CD, observability-driven development, and platform engineering's focus on developer experience. This ensures platforms and applications evolve quickly in response to real-world conditions.

Option A contradicts Agile, which emphasizes active customer collaboration. Option C reflects rigid waterfall methodologies, not Agile or DevOps. Option D enforces silos, which is the opposite of DevOps principles of cross-functional collaboration.

By embracing continuous feedback loops, both Agile and platform engineering accelerate delivery, improve resilience, and ensure that platforms deliver real value to developers and end users. This cultural alignment ensures both speed and quality in cloud native environments.

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

NEW QUESTION # 68

Why might a platform allow different resource limits for development and production environments?

- A. Enforcing strict resource parity, ensuring development environments constantly mirror production exactly.
- B. Encouraging developers to maximize resource usage in all environments for stress testing.
- C. Simplifying platform management by using identical resource settings everywhere.
- **D. Aligning resource allocation with the specific purpose and constraints of each environment.**

Answer: D

Explanation:

Resource allocation varies between environments to balance cost, performance, and reliability. Option D is correct because development environments usually require fewer resources and are optimized for speed and cost efficiency, while production environments require stricter limits to ensure stability, scalability, and resilience under real user traffic.

Option A (identical settings) may simplify management but wastes resources and fails to account for different needs. Option B (maximizing usage in all environments) increases costs unnecessarily. Option C (strict parity) may be used in testing scenarios but is impractical as a universal rule.

By tailoring resource limits per environment, platforms ensure cost efficiency in dev/staging and robust performance in production. This practice is central to cloud native engineering, as it allows teams to innovate quickly while maintaining governance and operational excellence in production.

References:- CNCF Platforms Whitepaper- Kubernetes Resource Management Guidance- Cloud Native Platform Engineering Study Guide

NEW QUESTION # 69

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

Answer: A

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 # 70

As a Cloud Native Platform Associate, you need to implement an observability strategy for your Kubernetes clusters. Which of the following tools is most commonly used for collecting and monitoring metrics in cloud native environments?

- A. OpenTelemetry
- B. ELK Stack
- C. Grafana
- **D. Prometheus**

Answer: D

Explanation:

Prometheus is the de facto standard for collecting and monitoring metrics in Kubernetes and other cloud native environments. Option D is correct because Prometheus is a CNCF graduated project designed for multi-dimensional data collection, time-series storage, and powerful querying using PromQL. It integrates seamlessly with Kubernetes, automatically discovering targets such as Pods and Services through service discovery.

Option A (Grafana) is widely used for visualization but relies on Prometheus or other data sources to collect metrics. Option B (ELK Stack) is better suited for log aggregation rather than real-time metrics. Option C (OpenTelemetry) provides standardized instrumentation but is focused on generating and exporting metrics, logs, and traces rather than storage, querying, and alerting. Prometheus plays a central role in platform observability strategies, often paired with Alertmanager for notifications and Grafana for dashboards. Together, they enable proactive monitoring, SLO/SLI measurement, and incident detection, making Prometheus indispensable in cloud native platform engineering.

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

NEW QUESTION # 71

How can an internal platform team effectively support data scientists in leveraging complex AI/ML tools and infrastructure?

- **A. Offer workflows and easy access to specialized AI/ML tools, data, and compute.**
- B. Integrate AI/ML steps into standard developer CI/CD systems for maximum reuse
- C. Focus the portal on UI-driven execution of predefined AI/ML jobs via abstraction.
- D. Implement strict resource quotas and isolation for AI/ML workloads for stability.

Answer: A

Explanation:

The best way for platform teams to support data scientists is by enabling easy access to specialized AI/ML workflows, tools, and compute resources. Option C is correct because it empowers data scientists to experiment, train, and deploy models without worrying about the complexities of infrastructure setup. This aligns with platform engineering's principle of self-service with guardrails.

Option A (integrating into standard CI/CD) may help, but AI/ML workflows often require specialized tools like MLflow, Kubeflow, or TensorFlow pipelines. Option B (strict quotas) ensures stability but does not improve usability or productivity. Option D (UI-driven execution only) restricts flexibility and reduces the ability of data scientists to adapt workflows to evolving needs.

By offering AI/ML-specific workflows as golden paths within an Internal Developer Platform (IDP), platform teams improve developer experience for data scientists, accelerate innovation, and ensure compliance and governance.

References:- CNCF Platforms Whitepaper- CNCF Platform Engineering Maturity Model- Cloud Native Platform Engineering Study Guide

NEW QUESTION # 72

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