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Linux Foundation Certified Cloud Native Platform Engineering Associate Sample Questions (Q32-Q37):

NEW QUESTION # 32

As a Cloud Native Platform Associate, you are tasked with improving software delivery efficiency using DORA metrics. Which of the following metrics best indicates the effectiveness of your platform initiatives?

- A. Mean Time to Recover (MTTR)
 - B. Change Failure Rate
 - C. Service Level Agreements (SLAs)
 - D. Lead Time for Changes

Answer: D

Explanation:

Lead Time for Changes is the DORA metric that best measures the efficiency and impact of platform initiatives. Option A is correct

because it tracks the time from code commit to successful production deployment, directly reflecting how effectively a platform enables developers to deliver software.

Option B (MTTR) measures resilience and recovery speed, not efficiency. Option C (Change Failure Rate) measures deployment stability, while Option D (SLAs) are contractual agreements, not engineering performance metrics.

By reducing lead time, platform engineering demonstrates its ability to provide self-service, automation, and streamlined CI/CD workflows. This makes Lead Time for Changes a critical measurement of platform efficiency and developer experience improvements.

References:- CNCF Platforms Whitepaper- Accelerate (DORA Report)- Cloud Native Platform Engineering Study Guide

NEW QUESTION # 33

What does the latest tag usually represent in a container image registry?

- A. The most recently built image unless otherwise specified.
- B. A signed image that has passed all security validations.
- C. A system-generated version number based on Git history.
- D. The only image tag that can be deployed to production systems.

Answer: A

Explanation:

In most container registries, the latest tag is simply an alias pointing to whichever image was most recently built and pushed, unless explicitly overridden. Option A is correct because the latest tag does not carry any semantic guarantee beyond being the most recently tagged version.

Option B is incorrect-latest does not imply security validation or attestation. Option C is false because production systems should not rely on latest; instead, immutable, versioned tags or digests should be used for reproducibility. Option D is misleading, as latest is not tied to Git history but rather to tag assignment during the build/push process.

While convenient for testing or local development, relying on latest in production pipelines is discouraged.

Platform engineering best practices emphasize explicit versioning and image immutability to ensure consistency, reproducibility, and traceability. Using signed images with SBOM attestation is recommended for security and compliance, while latest should only be used in controlled, non-production workflows.

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

NEW QUESTION # 34

What is the goal of automating processes in platform teams?

- A. Ensuring high-quality coding standards.
- B. Reducing time spent on repetitive tasks.
- C. Focusing on manual processes.
- D. Increasing the number of tasks completed.

Answer: B

Explanation:

Comprehensive and Detailed Explanation at least 150 to 200 words:

In platform engineering, automation's primary goal is to eliminate manual, repetitive toil by codifying repeatable workflows and guardrails so teams can focus on higher-value work. Authoritative Cloud Native Platform Engineering guidance emphasizes that platforms should provide consistent, reliable, and secure self-service capabilities-achieved by automating provisioning, configuration, policy enforcement, and delivery pipelines. This directly reduces cognitive load and handoffs, shortens lead time for changes, decreases error rates, and improves overall reliability. While automation often improves code quality indirectly (e.g., through automated testing, linting, and policy-as-code), the central, explicitly stated aim is to remove repetitive manual work and standardize operations, not to simply "do more tasks" or prioritize manual intervention.

Therefore, option A most accurately captures the intent. Options B and C misframe the objective: platform engineering seeks fewer manual steps and better outcomes, not just higher task counts. Option D is a beneficial consequence but not the core purpose. By systematizing common paths ("golden paths") and embedding security and compliance controls into automated workflows, platforms deliver predictable, compliant environments at scale while freeing engineers to focus on product value.

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

NEW QUESTION # 35

In the context of platform engineering and the effective delivery of platform software, which of the following statements describes the role of CI/CD pipelines in relation to Software Bill of Materials (SBOM) and security scanning?

- A. CI/CD pipelines are designed to accelerate the delivery of platform software, and adding SBOM generation and security scanning would slow down the process, so these activities are better suited for periodic audits conducted outside of the pipeline.
- B. SBOM generation and security scanning are particularly valuable for application software. While platform software may have different security considerations, these practices are highly beneficial within CI/CD pipelines for applications.
- C. CI/CD pipelines are primarily for automating deployments; SBOM generation and security scanning are separate, manual processes performed after deployment.
- D. **CI/CD pipelines should integrate SBOM generation and security scanning as automated steps within the build and test phases to ensure early detection of vulnerabilities and maintain a clear inventory of components.**

Answer: D

Explanation:

Modern platform engineering requires security and compliance to be integral parts of the delivery process, not afterthoughts. CI/CD pipelines are the foundation for delivering platform software rapidly and reliably, and integrating SBOM generation and automated vulnerability scanning directly within pipelines ensures that risks are identified early in the lifecycle.

Option B is correct because it reflects recommended practices from cloud native platform engineering standards: SBOMs provide a transparent inventory of all software components, including dependencies, which is crucial for vulnerability management, license compliance, and supply chain security. By automating these steps in CI/CD, teams can maintain both velocity and security without manual overhead.

Option A downplays the relevance of SBOMs for platform software, which is inaccurate because platform components (like Kubernetes operators, ingress controllers, or logging agents) are equally susceptible to vulnerabilities. Option C dismisses automation in favor of periodic audits, which contradicts the shift-left security principle. Option D misunderstands CI/CD's purpose: security must be integrated, not separated.

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

NEW QUESTION # 36

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. **Aligning resource allocation with the specific purpose and constraints of each environment.**
- D. Simplifying platform management by using identical resource settings everywhere.

Answer: C

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 # 37

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