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Linux Foundation Certified Cloud Native Platform Engineering Associate Sample Questions (Q19-Q24):

NEW QUESTION # 19

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

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

Answer: D

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 # 20

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

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

Answer: A

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 # 21

Which of the following is a primary benefit of using Kubernetes Custom Resource Definitions (CRDs) in a self-service platform model?

- A. CRDs automatically manage the scaling and failover of platform services without additional configuration.
- **B. CRDs enable platform teams to define custom APIs without modifying the Kubernetes API server code.**
- C. CRDs provide built-in support for multi-cloud deployments without additional tooling.
- D. CRDs eliminate the need for Role-based access control (RBAC) configurations in Kubernetes clusters.

Answer: B

Explanation:

Kubernetes Custom Resource Definitions (CRDs) extend the Kubernetes API by allowing platform teams to create and expose custom APIs without modifying the core Kubernetes API server code. Option B is correct because this extensibility enables teams to define new abstractions (e.g., Database, Application, or Environment resources) tailored to organizational needs, which

developers can consume through a self-service model.

Option A is incorrect because scaling and failover are handled by controllers or operators, not CRDs themselves. Option B is wrong because RBAC is still required for access control over custom resources.

Option D is misleading because multi-cloud support depends on how CRDs and their controllers are implemented, not a built-in CRD feature.

By leveraging CRDs, platform teams can standardize workflows, hide complexity, and implement guardrails, all while presenting developers with simplified abstractions. This is central to platform engineering, as it empowers developers with self-service APIs while maintaining operational control.

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

NEW QUESTION # 22

What is a key cultural aspect that drives successful platform adoption in an organization?

- A. Mandating that all teams must use the platform without exceptions
- B. Keeping platform development separate from application teams.
- C. Encouraging platform feedback loops from developers to improve usability.
- D. Prioritizing platform security over usability.

Answer: C

Explanation:

Successful platform adoption depends heavily on cultural practices that foster collaboration and continuous improvement. Option D is correct because feedback loops between developers and platform teams ensure that the platform evolves to meet developer needs while balancing security and governance. This aligns with the principle of treating the platform as a product, where developer experience is central.

Option A (mandates) often lead to resistance and shadow IT. Option B isolates platform teams, creating silos and reducing alignment with developer workflows. Option C is misleading-security is important, but overemphasizing it at the expense of usability hinders adoption.

Feedback-driven iteration creates trust, improves usability, and drives organic adoption. It transforms the platform into a valuable product that developers want to use, rather than one they are forced to adopt.

References:- CNCF Platforms Whitepaper- Team Topologies (Platform as a Product model)- Cloud Native Platform Engineering Study Guide

NEW QUESTION # 23

A Cloud Native Platform Engineer is tasked with improving the integration between teams through effective API management. Which aspect of API-driven initiatives is most crucial for fostering collaboration in platform engineering?

- A. APIs must be documented properly to ensure all teams understand how to use them.
- B. APIs should be released without versioning to simplify maintenance.
- C. APIs should be designed to be as complex as possible to accommodate all potential use cases.
- D. APIs should be tightly coupled to specific teams to enforce accountability.

Answer: A

Explanation:

Proper documentation is critical for fostering collaboration through APIs. Option A is correct because well-documented APIs ensure that all teams-platform engineers, developers, and operations-understand how to consume and integrate services effectively. Clear documentation reduces friction, accelerates adoption, and minimizes support overhead.

Option B (no versioning) is poor practice, as versioning ensures backward compatibility and safe upgrades.

Option C (tight coupling) restricts collaboration and creates silos, which goes against platform engineering principles. Option D (complex design) reduces usability and increases cognitive load, the opposite of platform goals.

APIs serve as the contracts between teams and systems. In platform engineering, well-documented, versioned, and abstracted APIs provide a consistent and predictable way to interact with platform services, improving collaboration and developer experience.

References:- CNCF Platforms Whitepaper- Team Topologies Guidance- Cloud Native Platform Engineering Study Guide

NEW QUESTION # 24

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