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Linux Foundation Certified Cloud Native Platform Engineering Associate Sample Questions (Q71-Q76):

NEW QUESTION # 71

Which platform component enables one-click provisioning of sandbox environments, including both infrastructure and application code?

- A. Service bus
- B. Service mesh
- C. Observability pipeline
- **D. CI/CD pipeline**

Answer: D

Explanation:

A CI/CD pipeline is the platform component that enables automated provisioning of sandbox environments with both infrastructure and application code. Option A is correct because modern pipelines integrate Infrastructure as Code (IaC) with application deployment, enabling "one-click" or self-service provisioning of complete environments. This capability is central to platform engineering because it empowers developers to spin up temporary or permanent sandbox environments quickly for testing, experimentation, or demos.

Option B (service mesh) focuses on secure, observable service-to-service communication but does not provision environments.

Option C (service bus) is used for asynchronous communication between services, not environment provisioning. Option D (observability pipeline) deals with collecting telemetry data, not provisioning.

By leveraging CI/CD pipelines integrated with GitOps and IaC tools (such as Terraform, Crossplane, or Kubernetes manifests), platform teams ensure consistency, compliance, and automation. Developers benefit from reduced friction, faster feedback cycles, and a better overall developer experience.

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

NEW QUESTION # 72

In the context of Istio, what is the purpose of PeerAuthentication?

- A. Securing service-to-service communication
- B. Defining how traffic is routed between services
- C. Monitoring and logging service communication
- D. Managing network policies for ingress traffic

Answer: A

Explanation:

In Istio, PeerAuthentication is used to configure how workloads authenticate traffic coming from other services in the mesh. Option C is correct because PeerAuthentication primarily secures service-to-service communication using mutual TLS (mTLS), ensuring encryption in transit and verifying the identity of both communicating parties.

Option A (network policies for ingress traffic) relates to Kubernetes NetworkPolicy, not Istio PeerAuthentication. Option B (traffic routing) is handled by Istio's VirtualService and DestinationRule resources. Option D (monitoring/logging) is part of Istio's telemetry features, not PeerAuthentication.

PeerAuthentication policies define whether mTLS is disabled, permissive, or strict, giving platform teams fine-grained control over how services communicate securely. This aligns with zero-trust security models and ensures compliance with organizational policies without requiring application code changes.

References:- CNCF Service Mesh Whitepaper- Istio Security Documentation- Cloud Native Platform Engineering Study Guide

NEW QUESTION # 73

In a software deployment pipeline, what is a common purpose of having different environments like production, staging, and development?

- A. Helps streamline deployments by limiting testing to staging environments only.
- B. Supports testing features against different datasets without impacting live users.
- C. Allows teams to isolate changes and catch issues before reaching production.
- D. Lets developers work together on the same codebase more effectively.

Answer: C

Explanation:

The primary purpose of multiple environments in software delivery pipelines is to isolate changes and test them before they reach production. Option A is correct because development, staging, and production environments provide controlled phases where teams can validate functionality, integration, performance, and security without impacting end users.

Option B (team collaboration) is facilitated by source control and workflows, not environment separation.

Option C (testing only in staging) is a risky practice and not recommended. Option D is a partial benefit- testing with different datasets helps-but the broader purpose is risk isolation.

By maintaining environment separation, organizations reduce the likelihood of bugs or misconfigurations reaching production. This practice aligns with DevOps and platform engineering principles, ensuring safer, more reliable continuous delivery.

References:- CNCF Platforms Whitepaper- Continuous Delivery Foundation Best Practices- Cloud Native Platform Engineering Study Guide

NEW QUESTION # 74

Which of the following strategies should a team prioritize to enhance platform efficiency?

- **A. Automate the version bump process (or cluster updates).**
- B. Conduct weekly meetings to discuss every minor update.
- C. Encourage teams to handle all platform tools independently without guidance.
- D. Implement manual updates for all cluster configurations.

Answer: A

Explanation:

Comprehensive and Detailed Explanation at least 150 to 200 words:

Enhancing platform efficiency requires reducing operational friction and ensuring that updates, patches, and upgrades happen consistently without introducing unnecessary manual effort or delays. According to Cloud Native Platform Engineering practices, automation of the version bump process-whether for libraries, services, or cluster configurations-is a critical strategy for improving both reliability and security. By automating cluster updates, teams can minimize human error, enforce standardized practices, and ensure systems remain aligned with compliance and security benchmarks.

Option A, where each team independently manages platform tools, increases fragmentation and cognitive load, ultimately reducing efficiency. Option B, relying on manual updates, is both error-prone and unsustainable at scale, particularly in environments with multiple clusters or microservices. Option D, holding frequent meetings to discuss minor updates, wastes engineering cycles without delivering the tangible improvements that automation can achieve.

Automating updates is a direct application of Infrastructure as Code and GitOps principles, enabling declarative management, reproducibility, and consistent rollout strategies. Additionally, automation supports zero-downtime upgrades, aligns with cloud native resilience patterns, and improves developer experience by abstracting away operational complexity. Thus, option C represents the most effective strategy for enhancing platform efficiency.

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

NEW QUESTION # 75

Which Kubernetes feature allows you to control how Pods communicate with each other and external services?

- A. Security Context
- **B. Network Policies**
- C. Pod Security Standards
- D. Role-based access control (RBAC)

Answer: B

Explanation:

Kubernetes Network Policies are the feature that controls how Pods communicate with each other and external services. Option B is correct because Network Policies define rules for ingress (incoming) and egress (outgoing) traffic at the Pod level, ensuring fine-grained control over communication pathways within the cluster.

Option A (Pod Security Standards) defines policies around Pod security contexts (e.g., privilege escalation, root access) but does not control network traffic. Option C (Security Context) is specific to Pod or container- level permissions, not networking. Option D (RBAC) governs access to Kubernetes API resources, not Pod-to- Pod traffic.

Network Policies are essential for implementing a zero-trust model in Kubernetes, ensuring that only authorized services communicate. This enhances both security and compliance, especially in multi-tenant clusters.

References:- CNCF Kubernetes Security Best Practices- CNCF Platforms Whitepaper- Cloud Native Platform Engineering Study Guide

NEW QUESTION # 76

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