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

NEW QUESTION # 76

A company is implementing a service mesh for secure service-to-service communication in their cloud native environment. What is the primary benefit of using mutual TLS (mTLS) within this context?

- A. Enables logging of all service communications for audit purposes.
- B. Allows services to authenticate each other and secure data in transit.
- C. Allows services to bypass security checks for better performance.
- D. Simplifies the deployment of microservices by automatically scaling them.

Answer: B

Explanation:
Mutual TLS (mTLS) is a core feature of service meshes, such as Istio or Linkerd, that enhances security in cloud native environments by ensuring that both communicating services authenticate each other and that the communication channel is encrypted.
Option A is correct because mTLS delivers two critical benefits:
authentication (verifying the identity of both client and server services) and encryption (protecting data in transit from interception or tampering).
Option B is incorrect because mTLS does not bypass security-it enforces it. Option C is partly true in that service meshes often support observability and logging, but that is not the primary purpose of mTLS. Option D relates to scaling, which is outside the scope of mTLS.
In platform engineering, mTLS is a fundamental security mechanism that provides zero-trust networking between microservices, ensuring secure communication without requiring application-level changes. It strengthens compliance with security and data protection requirements, which are crucial in regulated industries.
References:- CNCF Service Mesh Whitepaper- CNCF Platforms Whitepaper- Cloud Native Platform Engineering Study Guide

NEW QUESTION # 77
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. Simplifying platform management by using identical resource settings everywhere.
- D. Enforcing strict resource parity, ensuring development environments constantly mirror production exactly.

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 # 78
In a GitOps workflow, what is a secure and efficient method for managing secrets within a Git repository?

- A. Use environment variables to manage secrets outside the repository.
- B. Encrypt secrets and store them directly in the repository.
- C. Use a secrets management tool and store references in the repository.
- D. Store secrets in plain text within the repository.

Answer: C

Explanation:
The secure and efficient way to handle secrets in a GitOps workflow is to use a dedicated secrets management tool (e.g., HashiCorp

Vault, Sealed Secrets, or External Secrets Operator) and store only references or encrypted placeholders in the Git repository. Option B is correct because Git should remain the source of truth for configuration, but sensitive values should be abstracted or encrypted to maintain security.

Option A (environment variables) can supplement secret management but lacks versioning and auditability when used alone. Option C (encrypting secrets in Git) can work with tools like Mozilla SOPS, but it still requires external key management, making Option B a more complete and secure approach. Option D (plain text secrets) is highly insecure and should never be used.

By integrating secrets managers into GitOps workflows, teams achieve both security and automation, ensuring secrets are delivered securely during reconciliation without exposing sensitive data in Git.

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

NEW QUESTION # 79

In the context of observability, which telemetry signal is primarily used to record events that occur within a system and are timestamped?

- A. Logs
- B. Alerts
- C. Metrics
- D. Traces

Answer: A

Explanation:

Logs are detailed, timestamped records of discrete events that occur within a system. They provide granular insight into what has happened, making them crucial for debugging, auditing, and incident investigations.

Option A is correct because logs capture both normal and error events, often containing contextual information such as error codes, user IDs, or request payloads.

Option B (alerts) are secondary outputs generated from telemetry signals like logs or metrics and are not raw data themselves.

Option C (traces) represent the flow of requests across distributed systems, showing relationships and latency between services but not arbitrary events. Option D (metrics) are numeric aggregates sampled over intervals (e.g., CPU usage, latency), not discrete, timestamped events.

Observability guidance in cloud native systems emphasizes the "three pillars" of telemetry: logs, metrics, and traces. Logs are indispensable for root cause analysis and compliance because they preserve historical event context.

References:- CNCF Observability Whitepaper- OpenTelemetry Documentation (aligned with CNCF)- Cloud Native Platform Engineering Study Guide

NEW QUESTION # 80

As a platform engineer, how do you automate application deployments across multiple Kubernetes clusters using GitOps, Helm, and Crossplane, ensuring a consistent application state?

- A. Use Helm and Crossplane, with manual GUI-based configuration updates.
- B. Leverage Git for configuration storage, with manual application of Helm and Crossplane.
- C. Employ a GitOps controller to synchronize Git-stored Helm and Crossplane configurations.
- D. Integrate Helm and Crossplane into a GitOps-enabled CI/CD pipeline.

Answer: C

Explanation:

The most effective way to achieve consistent, automated deployments across multiple Kubernetes clusters is to combine GitOps controllers (e.g., Argo CD, Flux) with declarative configurations managed by Helm and Crossplane. Option A is correct because the GitOps controller continuously reconciles the desired state stored in Git-Helm charts for applications and Crossplane manifests for infrastructure-ensuring consistency across clusters.

Option B and D rely on manual updates, which are error-prone and not scalable. Option C mischaracterizes GitOps by suggesting push-based pipelines rather than the core GitOps model of pull-based reconciliation.

This combination leverages Helm for application packaging, Crossplane for cloud infrastructure provisioning, and GitOps for declarative, version-controlled delivery. It ensures applications remain in sync with Git, providing auditability, automation, and resilience in multi-cluster environments.

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

NEW QUESTION # 81

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Although there are no requirements for which DC can act as a specific CNPA operations master, pay particular attention to the section Recommendations for Operations Masters" later in this chapter.

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