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Linux Foundation CNPA Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> Platform Observability, Security, and Conformance: This part of the exam evaluates Procurement Specialists on key aspects of observability and security. It includes working with traces, metrics, logs, and events while ensuring secure service communication. Policy engines, Kubernetes security essentials, and protection in CI CD pipelines are also assessed here.

Topic 2	<ul style="list-style-type: none"> • IDPs and Developer Experience: This section of the exam measures the skills of Supplier Management Consultants and focuses on improving developer experience. It covers simplified access to platform capabilities, API-driven service catalogs, developer portals for platform adoption, and the role of AI • ML in platform automation.
Topic 3	<ul style="list-style-type: none"> • Platform APIs and Provisioning Infrastructure: This part of the exam evaluates Procurement Specialists on the use of Kubernetes reconciliation loops, APIs for self-service platforms, and infrastructure provisioning with Kubernetes. It also assesses knowledge of the Kubernetes operator pattern for integration and platform scalability.

Linux Foundation Certified Cloud Native Platform Engineering Associate Sample Questions (Q28-Q33):

NEW QUESTION # 28

In a cloud native environment, which factor most critically influences the need for customized CI pipeline configurations across different application types?

- A. The need to accommodate varying team sizes and developer expertise levels within the organization.
- **B. The technical differences in build tools, testing frameworks, and artifact formats across programming languages.**
- C. The organizational practice of assigning unique pipeline configurations based on application priority levels.
- D. The requirement to visually distinguish between different application pipelines in monitoring dashboards.

Answer: B

Explanation:

The biggest driver for customizing CI pipeline configurations across application types is technical differences between programming languages, frameworks, and artifact formats. Option B is correct because applications written in Java, Python, Go, or Node.js require different build tools (e.g., Maven, pip, go build, npm), testing frameworks, and packaging mechanisms. These differences must be reflected in the CI pipeline to ensure successful builds, tests, and artifact generation.

Option A (priority-based pipelines) is more of an organizational practice, not a technical necessity. Option C (team sizes and expertise) may influence usability but does not drive pipeline configuration. Option D (visual distinction) relates to dashboards and observability, not pipeline functionality.

Platform engineers often provide pipeline templates or abstractions that encapsulate these differences while standardizing security and compliance checks. This balances customization with consistency, enabling developers to use pipelines suited to their technology stack without fragmenting governance.

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

NEW QUESTION # 29

Which of the following statements describes the fundamental relationship between Continuous Integration (CI) and Continuous Delivery (CD) in modern software development?

- A. CD is a prerequisite for CI; CD automates the deployment of code and CI builds upon this by automating the integration of code changes.
- B. CI and CD are interchangeable terms; they both refer to the process of automating software release management.
- C. CI and CD are entirely separate practices; CI focuses on code quality, while CD focuses on infrastructure management.
- **D. CI is a prerequisite for CD; CI automates the building and testing of code, and CD builds upon this by automating the release process.**

Answer: D

Explanation:

Continuous Integration (CI) and Continuous Delivery (CD) are complementary practices. Option A is correct:

CI is a prerequisite for CD. CI focuses on automating code integration by building, testing, and validating changes, ensuring code quality and early detection of defects. CD builds upon CI by automating the process of releasing validated builds into staging and production environments, making delivery repeatable and reliable.

Option B incorrectly treats them as entirely separate. Option C reverses the relationship, as CD cannot exist without CI pipelines. Option D is inaccurate because CI and CD are not interchangeable—they represent distinct stages in the software delivery lifecycle.

Together, CI/CD accelerates software delivery, reduces risk, and improves quality. In platform engineering, CI/CD pipelines are critical enablers of developer productivity and efficient operations.

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

NEW QUESTION # 30

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

Answer: C

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 # 31

In the context of observability for cloud native platforms, which of the following best describes the role of OpenTelemetry?

- A. OpenTelemetry is solely focused on infrastructure monitoring.
- B. OpenTelemetry is a proprietary solution that limits its use to specific cloud providers.
- C. OpenTelemetry is primarily used for logging data only.
- D. OpenTelemetry provides a standardized way to collect and transmit observability data.

Answer: D

Explanation:

OpenTelemetry is an open-source CNCF project that provides vendor-neutral, standardized APIs, SDKs, and agents for collecting and exporting observability data such as metrics, logs, and traces. Option C is correct because OpenTelemetry's purpose is to unify how telemetry data is generated, transmitted, and consumed, regardless of which backend (e.g., Prometheus, Jaeger, Elastic, commercial APM tools) is used.

Option A is incorrect because OpenTelemetry supports all three signal types (metrics, logs, traces), not just logs. Option B is incorrect because it is an open, community-driven standard and not tied to a single vendor or cloud provider. Option D is misleading because OpenTelemetry covers distributed applications, services, and infrastructure—far beyond just infrastructure monitoring. OpenTelemetry reduces vendor lock-in and promotes interoperability, making it a cornerstone of cloud native observability strategies. Platform engineering teams rely on it to ensure consistent data collection, enabling better insights, faster debugging, and improved reliability of cloud native platforms.

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

NEW QUESTION # 32

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

- A. CRDs enable platform teams to define custom APIs without modifying the Kubernetes API server code.

- B. CRDs eliminate the need for Role-based access control (RBAC) configurations in Kubernetes clusters.
- C. CRDs provide built-in support for multi-cloud deployments without additional tooling.
- D. CRDs automatically manage the scaling and failover of platform services without additional configuration.

Answer: A

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 C 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 # 33

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