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Linux Foundation CNPA Exam Syllabus Topics:

Topic	Details

Topic 1	• 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.
Topic 2	• 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 3	• Platform Engineering Core Fundamentals: This section of the exam measures the skills of Supplier Management Consultants and covers essential foundations such as declarative resource management, DevOps practices, application environments, platform architecture, and the core goals of platform engineering. It also includes continuous integration fundamentals, delivery approaches, and GitOps principles.
Topic 4	• 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 5	• Measuring your Platform: This part of the exam assesses Procurement Specialists on how to measure platform efficiency and team productivity. It includes knowledge of applying DORA metrics for platform initiatives and monitoring outcomes to align with organizational goals.

Linux Foundation Certified Cloud Native Platform Engineering Associate Sample Questions (Q18-Q23):

NEW QUESTION # 18
In a cloud native environment, which factor most critically influences the need for customized CI pipeline configurations across different application types?

- A. The organizational practice of assigning unique pipeline configurations based on application priority levels.
- B. The technical differences in build tools, testing frameworks, and artifact formats across programming languages.
- C. The need to accommodate varying team sizes and developer expertise levels within the organization.
- 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 # 19
Which Kubernetes feature allows you to control how Pods communicate with each other and external services?

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

Answer: C

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 # 20
In a GitOps workflow, what is a secure and efficient method for managing secrets within a Git repository?

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

Answer: A

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 # 21
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 provide built-in support for multi-cloud deployments without additional tooling.
- C. CRDs eliminate the need for Role-based access control (RBAC) configurations in Kubernetes clusters.
- 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 # 22
A developer is struggling to access the necessary services on a cloud native platform due to complex Kubernetes configurations.
What approach can best simplify their access to platform capabilities?

- A. Increase the number of required configurations to enhance security.
- B. Provide detailed documentation on Kubernetes configurations.
- C. Implement a web portal that abstracts the Kubernetes complexities.
- D. Limit user access to only a few services.

Answer: C

Explanation:
One of the primary objectives of internal developer platforms (IDPs) is to improve developer experience by reducing cognitive load. Complex Kubernetes configurations often overwhelm developers who simply want to consume services and deploy code without worrying about infrastructure intricacies.
Option B is correct because implementing a self-service web portal (or developer portal) abstracts away Kubernetes complexities, providing developers with easy access to platform services through standardized workflows, templates, and golden paths. This aligns with platform engineering principles: empowering developers with self-service capabilities while maintaining governance, security, and compliance.
Option A increases burden unnecessarily and negatively impacts productivity. Option C limits access to services, reducing flexibility and developer autonomy, which goes against the core goal of IDPs. Option D, while helpful for education, does not remove complexity-it only shifts the responsibility back to the developer. By leveraging portals, APIs, and automation, platform teams allow developers to focus on building business value instead of managing infrastructure details.
References:- CNCF Platforms Whitepaper- Team Topologies and Platform Engineering Practices- Cloud Native Platform Engineering Study Guide

NEW QUESTION # 23
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