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Linux Foundation CNPA Exam Syllabus Topics:

Topic	Details
Topic 1	- Continuous Delivery & Platform Engineering: This section measures the skills of Supplier Management Consultants and focuses on continuous integration pipelines, the fundamentals of the CI - CD relationship, and GitOps basics. It also includes knowledge of workflows, incident response in platform engineering, and applying GitOps for application environments.
Topic 2	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.
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	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 5	- 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.

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CNPA Valid Exam Objectives | Original CNPA Questions

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Linux Foundation Certified Cloud Native Platform Engineering Associate Sample Questions (Q38-Q43):

NEW QUESTION # 38

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

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

Answer: D

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 # 39

What is the primary purpose of Kubernetes runtime security?

- A. Encrypts the sensitive data stored in etcd.
- B. Scans container images before deployment.
- C. Protects workloads against threats during execution.
- D. Manages the access control to the Kubernetes API.

Answer: C

Explanation:

The main purpose of Kubernetes runtime security is to protect workloads during execution. Option B is correct because runtime security focuses on monitoring active Pods, containers, and processes to detect and prevent malicious activity such as privilege escalation, anomalous network connections, or unauthorized file access.

Option A (etcd encryption) addresses data at rest, not runtime. Option C (image scanning) occurs pre- deployment, not during execution. Option D (API access control) is enforced through RBAC and IAM, not runtime security.

Runtime security solutions (e.g., Falco, Cilium, or Kyverno) continuously observe system calls, network traffic, and workload behaviors to enforce policies and detect threats in real time. This ensures compliance, strengthens defenses in zero-trust environments, and provides critical protection for cloud native workloads in production.

References:- CNCF Security TAG Guidance- CNCF Platforms Whitepaper- Cloud Native Platform Engineering Study Guide

NEW QUESTION # 40

In a cloud native environment, how do policy engines facilitate a unified approach for teams to consume platform services?

- **A. Provides centralized reusable policies to ensure security and compliance.**
- B. Enforces service-level agreements (SLAs) across all teams.
- C. Enforces strict compliance policies with security standards.
- D. Integrates with CI/CD pipelines to streamline service provisioning.

Answer: A

Explanation:

Policy engines (such as Open Policy Agent - OPA or Kyverno) play a critical role in enforcing governance, security, and compliance consistently across cloud native platforms. Option D is correct because policy engines provide centralized, reusable policies that can be applied across clusters, services, and environments. This ensures that developers consume platform services in a compliant and secure manner, without needing to manage these controls manually.

Option A is partially correct but too narrow, as policies extend beyond compliance to include operational, security, and cost-control measures. Option B is not the primary function of policy engines, though integration with CI/CD is possible. Option C is incorrect because SLAs are business agreements, not enforced by policy engines directly.

Policy engines enforce guardrails like image signing, RBAC rules, resource quotas, and network policies automatically, reducing cognitive load for developers while giving platform teams confidence in compliance.

This supports the platform engineering principle of combining self-service with governance.

References:- CNCF Platforms Whitepaper- CNCF Security TAG (OPA, Kyverno)- Cloud Native Platform Engineering Study Guide

NEW QUESTION # 41

In a cloud native environment, what is one of the security benefits of implementing a service mesh?

- A. Automatically scaling services to handle increased traffic.
- **B. Enabling encryption of communication between services using mTLS.**
- C. Limiting network access to services based on IP allowlisting.
- D. Using a centralized logging system to monitor service interactions.

Answer: B

Explanation:

A key advantage of using a service mesh is its ability to secure service-to-service communication transparently, without requiring application code changes. Option A is correct because service meshes (e.g., Istio, Linkerd) provide mutual TLS (mTLS) by default, ensuring both encryption in transit and authentication between services. This establishes a zero-trust networking model inside the cluster.

Option B (scaling) is managed by Kubernetes (Horizontal Pod Autoscaler), not service mesh. Option C (logging) may be supported as an observability feature, but it is not the primary security benefit. Option D (IP allowlisting) is an outdated, less flexible mechanism compared to identity-based policies that meshes provide.

Service meshes enforce security consistently across all services, support fine-grained policies, and ensure compliance without burdening developers with complex configurations. This makes mTLS a foundational benefit in cloud native platform security.

References:- CNCF Service Mesh Whitepaper- CNCF Platforms Whitepaper- Cloud Native Platform Engineering Study Guide

NEW QUESTION # 42

In a cloud native environment, which approach is effective for managing resources to ensure a balance between defined states and dynamic adjustments?

- A. Declarative Resource Management
- B. Manual Resource Tracking
- C. Imperative Resource Management
- D. Static Resource Allocation

Answer: A

Explanation:

Declarative resource management is a core principle in Kubernetes and cloud native platforms. Option C is correct because declarative systems define the desired state of resources (e.g., YAML manifests for Deployments, Services, or ConfigMaps), and controllers reconcile the actual state to match the desired state.

This provides consistency, automation, and resilience, while also allowing dynamic adjustments like scaling.

Option A (imperative management) requires step-by-step commands, which are error-prone and not scalable.

Option B (manual tracking) adds overhead and risk of drift. Option D (static allocation) wastes resources and does not adapt to changing workloads.

Declarative management enables GitOps workflows, automated scaling, and consistent application of policies.

This approach aligns with platform engineering principles by combining automation with governance, enabling efficiency and reliability at scale.

References:- CNCF GitOps Principles- Kubernetes Design Principles- Cloud Native Platform Engineering Study Guide

NEW QUESTION # 43

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