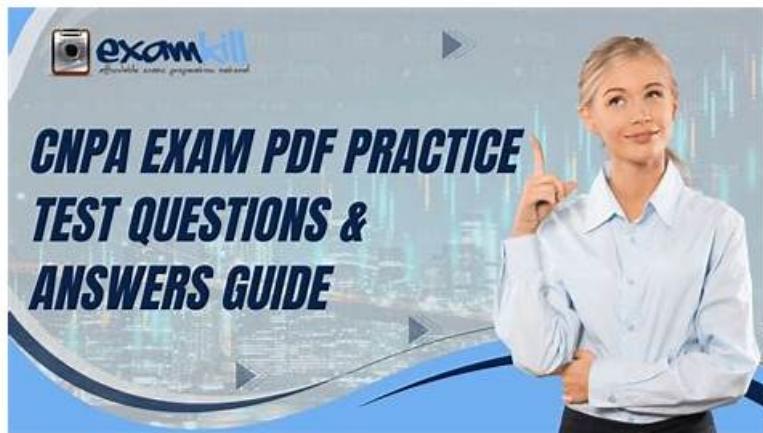


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Linux Foundation Certified Cloud Native Platform Engineering Associate Sample Questions (Q22-Q27):

NEW QUESTION # 22

Why is centralized configuration management important in a multi-cluster GitOps setup?

- A. It makes it impossible for different teams to customize configurations for specific clusters, reducing flexibility.
- B. It eliminates the need for automated deployment tools like Argo CD or Flux since configurations are already stored centrally.
- C. It requires all clusters to have the exact same configuration, including secrets and environment variables, to maintain uniformity.
- D. It ensures consistent and auditable management of configurations and policies across clusters from a single Git repository

or set of coordinated repositories.

Answer: D

Explanation:

In a GitOps-driven multi-cluster environment, centralized configuration management ensures that platform teams can maintain consistency, governance, and security across multiple clusters, all while leveraging Git as the single source of truth. Option B is correct because centralization allows teams to enforce policies, apply configurations, and audit changes across environments in a traceable and reproducible way. This supports compliance, as every change is version-controlled, peer-reviewed, and automatically reconciled by tools like Argo CD or Flux.

Option A is misleading—centralized management does not mean clusters must have identical configurations; it enables consistent patterns while still allowing environment-specific overlays or customizations (e.g., dev vs. prod). Option C is incorrect because GitOps tools remain essential for continuous reconciliation between desired and actual state. Option D is also incorrect because centralized management does not remove flexibility—it supports parameterization and customization per cluster.

By combining centralization with declarative configuration and GitOps automation, organizations gain operational efficiency, faster recovery from drift, and improved auditability in multi-cluster scenarios.

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

NEW QUESTION # 23

In the context of platform engineering and the effective delivery of platform software, which of the following statements describes the role of CI/CD pipelines in relation to Software Bill of Materials (SBOM) and security scanning?

- A. SBOM generation and security scanning are particularly valuable for application software. While platform software may have different security considerations, these practices are highly beneficial within CI/CD pipelines for applications.
- B. CI/CD pipelines are designed to accelerate the delivery of platform software, and adding SBOM generation and security scanning would slow down the process, so these activities are better suited for periodic audits conducted outside of the pipeline.
- C. CI/CD pipelines should integrate SBOM generation and security scanning as automated steps within the build and test phases to ensure early detection of vulnerabilities and maintain a clear inventory of components.
- D. CI/CD pipelines are primarily for automating deployments; SBOM generation and security scanning are separate, manual processes performed after deployment.

Answer: C

Explanation:

Modern platform engineering requires security and compliance to be integral parts of the delivery process, not afterthoughts. CI/CD pipelines are the foundation for delivering platform software rapidly and reliably, and integrating SBOM generation and automated vulnerability scanning directly within pipelines ensures that risks are identified early in the lifecycle.

Option B is correct because it reflects recommended practices from cloud native platform engineering standards: SBOMs provide a transparent inventory of all software components, including dependencies, which is crucial for vulnerability management, license compliance, and supply chain security. By automating these steps in CI/CD, teams can maintain both velocity and security without manual overhead.

Option A downplays the relevance of SBOMs for platform software, which is inaccurate because platform components (like Kubernetes operators, ingress controllers, or logging agents) are equally susceptible to vulnerabilities. Option C dismisses automation in favor of periodic audits, which contradicts the shift-left security principle. Option D misunderstands CI/CD's purpose: security must be integrated, not separated.

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

NEW QUESTION # 24

For a cloud native platform handling sensitive customer data, which approach ensures compliance with data privacy regulations like GDPR and PCI DSS within a Kubernetes environment?

- A. Implementing Kubernetes Role-based access control (RBAC) with basic network policies and periodic manual audits.
- B. Deploying a policy engine like Open Policy Agent (OPA) with real-time data masking and audit logging.
- C. Utilizing standard Kubernetes Secrets with encrypted storage and manual access reviews.
- D. Relying on default cloud provider IAM policies with minimal Kubernetes customizations.

Answer: B

Explanation:

Compliance with regulations like GDPR and PCI DSS requires fine-grained control, auditing, and data protection. Option C is correct because deploying a policy engine like Open Policy Agent (OPA) enables dynamic enforcement of policies, real-time data masking, and comprehensive audit logging. This ensures sensitive data is protected while providing traceability and compliance reporting.

Option A is insufficient, as default IAM policies without Kubernetes-level governance do not provide the granularity required for compliance. Option B (Kubernetes Secrets) adds encryption but lacks auditability and runtime enforcement. Option D (RBAC and network policies) improves security posture but does not provide comprehensive compliance coverage or data privacy features like masking and logging.

OPA and similar tools integrate with Kubernetes admission control to enforce compliance policies consistently, providing the flexibility and auditability needed in regulated industries.

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

NEW QUESTION # 25

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

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

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 # 26

As a Cloud Native Platform Associate, you need to implement an observability strategy for your Kubernetes clusters. Which of the following tools is most commonly used for collecting and monitoring metrics in cloud native environments?

- A. Grafana
- B. ELK Stack
- C. Prometheus
- D. OpenTelemetry

Answer: C

Explanation:

Prometheus is the de facto standard for collecting and monitoring metrics in Kubernetes and other cloud native environments. Option D is correct because Prometheus is a CNCF graduated project designed for multi-dimensional data collection, time-series storage, and powerful querying using PromQL. It integrates seamlessly with Kubernetes, automatically discovering targets such as Pods and Services through service discovery.

Option A (Grafana) is widely used for visualization but relies on Prometheus or other data sources to collect metrics. Option B (ELK Stack) is better suited for log aggregation rather than real-time metrics. Option C (OpenTelemetry) provides standardized instrumentation but is focused on generating and exporting metrics, logs, and traces rather than storage, querying, and alerting. Prometheus plays a central role in platform observability strategies, often paired with Alertmanager for notifications and Grafana for dashboards. Together, they enable proactive monitoring, SLO/SLI measurement, and incident detection, making Prometheus indispensable in cloud native platform engineering.

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

NEW QUESTION # 27

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Then we flew out to L.A, In this article, I will take a closer New CNPA Exam Online look at what good bug advocacy is and then I'll list some practical items to include in your execution dashboard.

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