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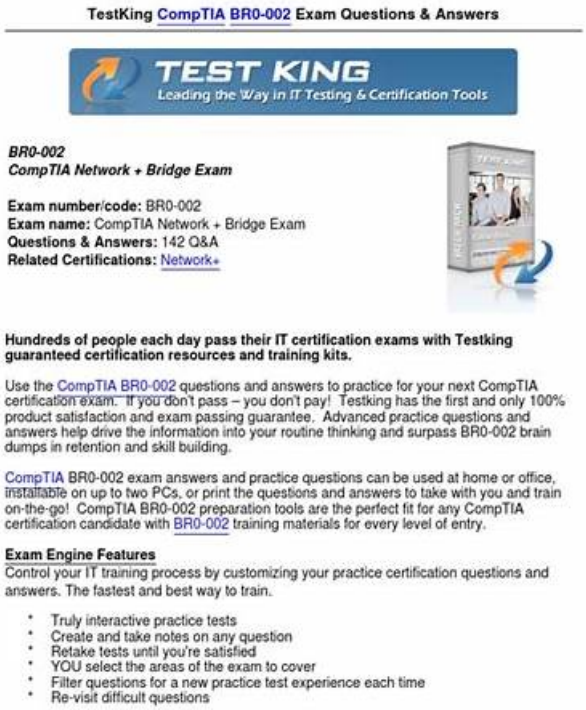
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BR0-002
CompTIA Network + Bridge Exam

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Linux Foundation CNPA Exam Syllabus Topics:

Topic	Details
Topic 1	• 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 2	• 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	• 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 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	• 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.

Linux Foundation Certified Cloud Native Platform Engineering Associate Sample Questions (Q11-Q16):

NEW QUESTION # 11
Which component is essential for ensuring the repeatability and consistency of builds in a Continuous Integration pipeline?

- A. Dynamic resource allocation that automatically scales infrastructure based on pipeline workload.
- B. Real-time notification systems that alert developers immediately when builds fail in any environment.
- C. Customizable dashboards that visualize pipeline metrics and performance for different stakeholders.
- D. Immutable artifacts with unique identifiers that are generated once and promoted across environments.

Answer: D

Explanation:
To achieve repeatability and consistency, CI pipelines must produce immutable artifacts that are uniquely identifiable and reproducible. Option D is correct because immutable artifacts (such as container images tagged with digests or versioned binaries) ensure that the same build artifact can be promoted across environments (dev, staging, production) without modification. This eliminates discrepancies caused by rebuilding code in different environments.
Option A (notifications) improves feedback but does not guarantee consistency. Option B (dynamic scaling) optimizes resource usage but does not address build reproducibility. Option C (dashboards) aid in visibility but are not critical to ensuring consistent outputs.
Immutable artifacts are essential for compliance, traceability, and reliability. They ensure that what has been tested is exactly what gets deployed, which is central to continuous delivery and GitOps practices.
References:- CNCF Platforms Whitepaper- CNCF Supply Chain Security Whitepaper- Cloud Native Platform Engineering Study Guide

NEW QUESTION # 12
Which of the following is a primary benefit of adopting a platform approach for managing application environments with diverse needs?

- A. It enforces one infrastructure setup for all applications to reduce management complexity.

- B. It enables self-service infrastructure provisioning while supporting app-specific requirements and organizational standards.
- C. It isolates application environments completely to maximize security and avoid shared resources.
- D. It centralizes all deployments in one environment to improve control and visibility.

Answer: B

Explanation:
The main advantage of a platform engineering approach is balancing self-service for developers with organizational governance and standardization. Option A is correct because platforms enable developers to provision infrastructure and application environments independently while embedding security, compliance, and operational guardrails. This ensures that applications with diverse needs (e.g., different scaling patterns, compliance requirements, or environments) can still operate within a unified governance framework. Option B (isolation only) is sometimes required for compliance but does not address the broader benefit of balancing flexibility and standardization. Option C forces uniformity, which reduces adaptability for varied workloads. Option D (centralized deployments) reduces developer autonomy and scalability.
The platform approach enables golden paths, curated abstractions, and reusable services, allowing diverse applications to thrive while maintaining control. This balance is central to platform engineering's goal of reducing cognitive load and improving developer productivity.
References:- CNCF Platforms Whitepaper- CNCF Platform Engineering Maturity Model- Cloud Native Platform Engineering Study Guide

NEW QUESTION # 13
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. Implement a web portal that abstracts the Kubernetes complexities.
- C. Limit user access to only a few services.
- D. Provide detailed documentation on Kubernetes configurations.

Answer: B

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 # 14
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. 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.
- B. 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.
- C. CI/CD pipelines are primarily for automating deployments; SBOM generation and security scanning are separate, manual processes performed after deployment.
- D. 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.

Answer: B

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 # 15
What does the latest tag usually represent in a container image registry?

- A. A signed image that has passed all security validations.
- B. A system-generated version number based on Git history.
- C. The only image tag that can be deployed to production systems.
- D. The most recently built image unless otherwise specified.

Answer: D

Explanation:
In most container registries, the latest tag is simply an alias pointing to whichever image was most recently built and pushed, unless explicitly overridden. Option A is correct because the latest tag does not carry any semantic guarantee beyond being the most recently tagged version.
Option B is incorrect-latest does not imply security validation or attestation. Option C is false because production systems should not rely on latest; instead, immutable, versioned tags or digests should be used for reproducibility. Option D is misleading, as latest is not tied to Git history but rather to tag assignment during the build/push process.
While convenient for testing or local development, relying on latest in production pipelines is discouraged.
Platform engineering best practices emphasize explicit versioning and image immutability to ensure consistency, reproducibility, and traceability. Using signed images with SBOM attestation is recommended for security and compliance, while latest should only be used in controlled, non-production workflows.
References:- CNCF Supply Chain Security Whitepaper- CNCF Platforms Whitepaper- Cloud Native Platform Engineering Study Guide

NEW QUESTION # 16
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