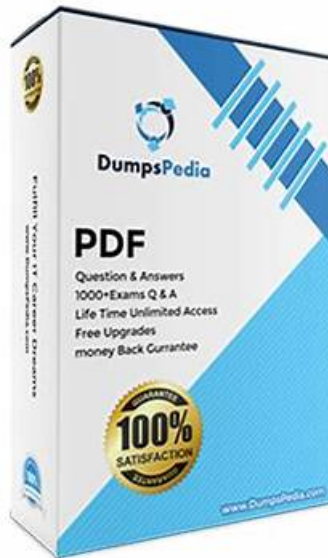


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Linux Foundation CNPA Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<ul style="list-style-type: none">• 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	<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.
Topic 4	<ul style="list-style-type: none"> 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 5	<ul style="list-style-type: none"> 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.

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Linux Foundation Certified Cloud Native Platform Engineering Associate Sample Questions (Q49-Q54):

NEW QUESTION # 49

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

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

Answer: B

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 # 50

Which IaC approach ensures Kubernetes infrastructure maintains its desired state automatically?

- A. Hybrid

- B. Manual
- **C. Declarative**
- D. Imperative

Answer: C

Explanation:

The declarative approach to Infrastructure as Code (IaC) is the foundation of Kubernetes and GitOps practices. Option A is correct because declarative IaC defines the desired state of the infrastructure (e.g., Kubernetes YAML manifests) and relies on controllers or reconciliation loops to ensure the actual state matches the declared one. This allows for automation, consistency, and drift correction without manual intervention.

Option B (imperative) requires explicit step-by-step instructions, which are not automatically enforced after execution. Option C (hybrid) can combine both methods but does not guarantee reconciliation. Option D (manual) is error-prone and eliminates the benefits of IaC entirely.

Declarative IaC reduces cognitive load, improves reproducibility, and ensures compliance through automated drift detection and reconciliation, which are essential in platform engineering for multi-cluster and multi-team environments.

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

NEW QUESTION # 51

What is a key cultural aspect that drives successful platform adoption in an organization?

- **A. Encouraging platform feedback loops from developers to improve usability.**
- B. Prioritizing platform security over usability.
- C. Mandating that all teams must use the platform without exceptions
- D. Keeping platform development separate from application teams.

Answer: A

Explanation:

Successful platform adoption depends heavily on cultural practices that foster collaboration and continuous improvement. Option D is correct because feedback loops between developers and platform teams ensure that the platform evolves to meet developer needs while balancing security and governance. This aligns with the principle of treating the platform as a product, where developer experience is central.

Option A (mandates) often lead to resistance and shadow IT. Option B isolates platform teams, creating silos and reducing alignment with developer workflows. Option C is misleading-security is important, but overemphasizing it at the expense of usability hinders adoption.

Feedback-driven iteration creates trust, improves usability, and drives organic adoption. It transforms the platform into a valuable product that developers want to use, rather than one they are forced to adopt.

References:- CNCF Platforms Whitepaper- Team Topologies (Platform as a Product model)- Cloud Native Platform Engineering Study Guide

NEW QUESTION # 52

A team wants to deploy a new feature to production for internal users only and be able to instantly disable it if problems occur, without redeploying code. Which strategy is most suitable?

- A. Use a blue/green deployment to direct internal users to one version and switch as needed.
- B. Deploy the feature to all users and prepare to roll it back manually if an issue is detected.
- **C. Use feature flags to release the feature to selected users and control its availability through settings.**
- D. Use a canary deployment to gradually expose the feature to a small group of random users.

Answer: C

Explanation:

Feature flags are the most effective way to control feature exposure to specific users, such as internal testers, while enabling fast rollback without redeployment. Option B is correct because feature flags allow teams to decouple deployment from release, giving precise runtime control over feature availability. This means that once the code is deployed, the team can toggle the feature on or off for different cohorts (e.g., internal users) dynamically.

Option A (blue/green deployment) controls traffic between two environments but does not provide user-level granularity. Option C (canary deployments) gradually expose changes but focus on random subsets of users rather than targeted groups such as internal

employees. Option D requires redeployment or rollback, which introduces risk and slows down incident response. Feature flags are widely recognized in platform engineering as a core continuous delivery practice that improves safety, accelerates experimentation, and enhances resilience by enabling immediate mitigation of issues.
References:- CNCF Platforms Whitepaper- Cloud Native Platform Engineering Study Guide- Continuous Delivery Foundation Guidance

NEW QUESTION # 53

Which of the following best represents an effective golden path implementation in platform engineering?

- A. An API service catalog providing comprehensive details about available infrastructure components and their consumption patterns.
- B. A monitoring dashboard system that displays the operational health metrics and alerting thresholds for all platform services.
- **C. A templated workflow that guides developers through deploying a complete microservice with integrated testing and monitoring.**
- D. A central documentation repository listing available database services with their configuration parameters.

Answer: C

Explanation:

A golden path in platform engineering refers to a curated, opinionated workflow that makes the easiest way the right way for developers. Option C is correct because a templated workflow for deploying a microservice with integrated testing and monitoring embodies the golden path concept. It provides developers with a pre-validated, secure, and efficient approach that reduces cognitive load and accelerates delivery.

Option A (documentation) provides information but lacks automation and enforced best practices. Option B (monitoring dashboards) improves observability but does not guide developers in delivery workflows. Option D (API service catalog) is useful but more about service discovery than curated workflows.

Golden paths improve adoption by embedding guardrails, automation, and organizational standards directly into workflows, making compliance seamless. They ensure consistency while allowing developers to focus on innovation rather than platform complexity.

References:- CNCF Platforms Whitepaper- Team Topologies & Platform Engineering Practices- Cloud Native Platform Engineering Study Guide

NEW QUESTION # 54

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