

# 2026 Linux Foundation CNPA: Perfect Exam Questions Certified Cloud Native Platform Engineering Associate Vce



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## Linux Foundation CNPA Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> <li>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.</li> </ul>
Topic 2	<ul style="list-style-type: none"> <li>Continuous Delivery &amp; Platform Engineering: This section measures the skills of Supplier Management Consultants and focuses on continuous integration pipelines, the fundamentals of the CI</li> <li>CD relationship, and GitOps basics. It also includes knowledge of workflows, incident response in platform engineering, and applying GitOps for application environments.</li> </ul>
Topic 3	<ul style="list-style-type: none"> <li>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.</li> </ul>

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# Linux Foundation Certified Cloud Native Platform Engineering Associate Sample Questions (Q27-Q32):

## NEW QUESTION # 27

If you update a Deployment's replica count from 3 to 5, how does the reconciliation loop respond?

- A. It will wait for an admin to manually add two more Pod definitions.
- **B. It will create new Pods to meet the new replica count of 5.**
- C. It will restart the existing Pods before adding any new Pods.
- D. It will delete the Deployment and require you to re-create it with 5 replicas.

**Answer: B**

Explanation:

The Kubernetes reconciliation loop ensures that the actual state of a resource matches the desired state defined in its manifest. If the replica count of a Deployment is changed from 3 to 5, option B is correct:

Kubernetes will automatically create two new Pods to satisfy the new desired replica count.

Option A is incorrect because Deployments are not deleted; they are updated in place. Option C contradicts Kubernetes' declarative model-no manual intervention is required. Option D is wrong because Kubernetes does not restart existing Pods unless necessary; it simply adds additional Pods.

This reconciliation process is core to Kubernetes' declarative infrastructure approach, where desired states are continuously monitored and enforced. It reduces human toil and ensures consistency, making it fundamental for platform engineering practices like GitOps.

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

## NEW QUESTION # 28

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

**Answer: C**

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 # 29

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 a canary deployment to gradually expose the feature to a small group of random users.
- **D. Use feature flags to release the feature to selected users and control its availability through settings.**

**Answer: D**

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 # 30

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

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

**Answer: B**

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 # 31

Which tool is commonly used to automate environment provisioning?

- A. Prometheus
- B. Kubernetes
- C. Docker
- **D. OpenTofu**

**Answer: D**

Explanation:

OpenTofu (the open-source fork of Terraform) is one of the most widely used tools for automating environment provisioning. Option D is correct because OpenTofu allows teams to define infrastructure as code, supporting multiple cloud providers and services. It enables declarative, reusable, and version- controlled provisioning workflows, ensuring consistency across environments.

Option A (Kubernetes) orchestrates containers and workloads but does not provision infrastructure outside its cluster scope. Option B (Prometheus) is an observability tool, not an IaC tool. Option C (Docker) manages containers but does not provision full environments or infrastructure.

By using tools like OpenTofu/Terraform, platform engineers ensure scalable, repeatable environment provisioning integrated into CI/CD or GitOps workflows. This aligns with platform engineering's goals of reducing toil and enabling self-service with compliance.

References:- CNCF Platforms Whitepaper- Infrastructure as Code Best Practices- Cloud Native Platform Engineering Study Guide

## NEW QUESTION # 32

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