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Linux Foundation Certified Cloud Native Platform Engineering Associate Sample Questions (Q30-Q35):

NEW QUESTION # 30

In a GitOps workflow, how should application environments be managed when promoting an application from staging to production?

- A. Merge changes and let a tool handle the deployment
- B. Create a new environment for production each time an application is updated.
- C. Manually update the production environment configuration files.
- D. Use a tool to package the application and deploy it directly to production.

Answer: A

Explanation:

In GitOps workflows, the source of truth for environments is stored in Git. Promotion from staging to production is managed by merging changes into the production branch or repository. Option A is correct because once changes are merged, the GitOps operator (e.g., Argo CD, Flux) automatically detects the updated desired state in Git and reconciles it with the production environment.

Option B (creating new environments each time) is inefficient and unnecessary. Option C (manual updates) violates GitOps principles of automation and auditability. Option D (direct deployments) reverts to a push-based CI/CD model rather than GitOps' pull-based reconciliation.

By relying on Git as the single source of truth, GitOps ensures version control, auditability, and rollback capabilities. This allows consistent, reproducible promotion between environments while reducing human error.

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

NEW QUESTION # 31

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 canary deployment to gradually expose the feature to a small group of random users.
- 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 blue/green deployment to direct internal users to one version and switch as needed.

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 # 32

Which of the following would be considered an advantage of using abstract APIs when offering cloud service provisioning and management as platform services?

- A. Abstractions allow customization of cloud services and resources without guardrails.
- B. Abstractions enforce explicit platform team approval before any cloud resource is deployed.
- C. Development teams can arbitrarily deploy cloud services via abstractions.
- D. Abstractions curate cloud services with built-in guardrails for development teams.

Answer: D

Explanation:

Abstract APIs are an essential component of platform engineering, providing a simplified interface for developers to consume infrastructure and cloud services without deep knowledge of provider-specific details.

Option B is correct because abstractions allow platform teams to curate services with built-in guardrails, ensuring compliance, security, and operational standards are enforced automatically. Developers get the benefit of self-service and flexibility while the

platform team ensures governance.

Option A would slow down the process, defeating the purpose of abstraction. Option C removes guardrails, which risks security and compliance violations. Option D allows uncontrolled deployments, which can create chaos and undermine platform governance. Abstract APIs strike the balance between developer experience and organizational control. They provide golden paths and opinionated defaults while maintaining the flexibility needed for developer productivity.

This approach ensures efficient service provisioning at scale with reduced cognitive load on developers.

References:- CNCF Platforms Whitepaper- CNCF Platform Engineering Maturity Model- Cloud Native Platform Engineering Study Guide

NEW QUESTION # 33

Which Kubernetes feature allows you to control how Pods communicate with each other and external services?

- A. Security Context
- B. Role-based access control (RBAC)
- C. Network Policies
- D. Pod Security Standards

Answer: C

Explanation:

Kubernetes Network Policies are the feature that controls how Pods communicate with each other and external services. Option B is correct because Network Policies define rules for ingress (incoming) and egress (outgoing) traffic at the Pod level, ensuring fine-grained control over communication pathways within the cluster.

Option A (Pod Security Standards) defines policies around Pod security contexts (e.g, privilege escalation, root access) but does not control network traffic. Option C (Security Context) is specific to Pod or container- level permissions, not networking. Option D (RBAC) governs access to Kubernetes API resources, not Pod-to- Pod traffic.

Network Policies are essential for implementing a zero-trust model in Kubernetes, ensuring that only authorized services communicate. This enhances both security and compliance, especially in multi-tenant clusters.

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

NEW QUESTION # 34

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

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

Answer: B

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 # 35

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