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Linux Foundation Certified Cloud Native Platform Engineering Associate Sample Questions (Q35-Q40):

NEW QUESTION # 35

How can an internal platform team effectively support data scientists in leveraging complex AI/ML tools and infrastructure?

- A. Focus the portal on UI-driven execution of predefined AI/ML jobs via abstraction.
- B. Integrate AI/ML steps into standard developer CI/CD systems for maximum reuse
- C. Offer workflows and easy access to specialized AI/ML tools, data, and compute.
- D. Implement strict resource quotas and isolation for AI/ML workloads for stability.

Answer: C

Explanation:
The best way for platform teams to support data scientists is by enabling easy access to specialized AI/ML workflows, tools, and compute resources. Option C is correct because it empowers data scientists to experiment, train, and deploy models without worrying about the complexities of infrastructure setup. This aligns with platform engineering's principle of self-service with guardrails.
Option A (integrating into standard CI/CD) may help, but AI/ML workflows often require specialized tools like MLflow, Kubeflow, or TensorFlow pipelines. Option B (strict quotas) ensures stability but does not improve usability or productivity. Option D (UI-driven execution only) restricts flexibility and reduces the ability of data scientists to adapt workflows to evolving needs.
By offering AI/ML-specific workflows as golden paths within an Internal Developer Platform (IDP), platform teams improve developer experience for data scientists, accelerate innovation, and ensure compliance and governance.
References:- CNCF Platforms Whitepaper- CNCF Platform Engineering Maturity Model- Cloud Native Platform Engineering Study Guide

NEW QUESTION # 36
As a platform engineer, how do you automate application deployments across multiple Kubernetes clusters using GitOps, Helm, and Crossplane, ensuring a consistent application state?

- A. Use Helm and Crossplane, with manual GUI-based configuration updates.
- B. Integrate Helm and Crossplane into a GitOps-enabled CI/CD pipeline.
- C. Leverage Git for configuration storage, with manual application of Helm and Crossplane.
- D. Employ a GitOps controller to synchronize Git-stored Helm and Crossplane configurations.

Answer: D

Explanation:
The most effective way to achieve consistent, automated deployments across multiple Kubernetes clusters is to combine GitOps controllers (e.g., Argo CD, Flux) with declarative configurations managed by Helm and Crossplane. Option A is correct because the GitOps controller continuously reconciles the desired state stored in Git-Helm charts for applications and Crossplane manifests for infrastructure-ensuring consistency across clusters.
Option B and D rely on manual updates, which are error-prone and not scalable. Option C mischaracterizes GitOps by suggesting push-based pipelines rather than the core GitOps model of pull-based reconciliation.
This combination leverages Helm for application packaging, Crossplane for cloud infrastructure provisioning, and GitOps for declarative, version-controlled delivery. It ensures applications remain in sync with Git, providing auditability, automation, and resilience in multi-cluster environments.
References:- CNCF GitOps Principles- CNCF Platforms Whitepaper- Cloud Native Platform Engineering Study Guide

NEW QUESTION # 37
Which approach is an effective method for securing secrets in CI/CD pipelines?

- A. Storing secrets in configuration files with restricted access.
- B. Encoding secrets in the source code using base64.
- C. Storing secrets as plain-text environment variables managed through config files.
- D. Storing secrets and encrypting them in a secrets manager.

Answer: D

Explanation:
The most secure and scalable method for handling secrets in CI/CD pipelines is to use a secrets manager with encryption. Option B is correct because solutions like HashiCorp Vault, AWS Secrets Manager, or Kubernetes Secrets (backed by KMS) securely store, encrypt, and control access to sensitive values such as API keys, tokens, or credentials.

Option A (restricted config files) may protect secrets but lacks auditability and rotation capabilities. Option C (plain-text environment variables) exposes secrets to accidental leaks through logs or misconfigurations.
Option D (base64 encoding) is insecure because base64 is an encoding, not encryption, and secrets can be trivially decoded.
Using a secrets manager ensures secure retrieval, audit trails, access policies, and secret rotation. This aligns with supply chain security and zero-trust practices, reducing risks of credential leakage in CI/CD pipelines.
References:- CNCF Security TAG Best Practices- CNCF Platforms Whitepaper- Cloud Native Platform Engineering Study Guide

NEW QUESTION # 38
In a CI/CD pipeline, why is a build artifact (e.g., a Docker image) pushed to an OCI-compliant registry?

- A. To store the image in a central registry so deployment environments can pull it for release.
- B. To enable the registry service to execute automated tests on the uploaded container image.
- C. To allow the container image to be analyzed and transformed back into source code.
- D. To publish versioned artifacts that can be tracked and used to inform users of new releases.

Answer: A

Explanation:
In cloud native CI/CD workflows, build artifacts such as Docker/OCI images are pushed to a central container registry to ensure consistent, reproducible deployments. Option A is correct because registries serve as a single source of truth where immutable artifacts are stored, versioned, and distributed across environments.
Deployment systems like Kubernetes pull images from these registries, ensuring that the same tested artifact is deployed in staging and production.
Option B is incorrect because images cannot be directly transformed back into source code. Option C partially describes benefits (version tracking) but misses the primary function of deployment consistency. Option D is misleading-registries typically don't run automated tests; CI/CD pipelines do that before pushing the image.
By using OCI-compliant registries, organizations gain portability, interoperability, and compliance with supply chain security practices such as image signing and SBOM attestation. This ensures traceability, reliability, and secure distribution of artifacts across the platform.
References:- CNCF Supply Chain Security Whitepaper- CNCF Platforms Whitepaper- Cloud Native Platform Engineering Study Guide

NEW QUESTION # 39
In the context of Agile methodology, which principle aligns best with DevOps practices in platform engineering?

- A. Teams should strictly adhere to initial project plans without making adjustments during development.
- B. Teams should continuously gather feedback and iterate on their work to improve outcomes.
- C. Customer involvement should be limited during the development process to avoid disruptions.
- D. Development and operations teams should remain separate to maintain clear responsibilities.

Answer: B

Explanation:
Agile and DevOps share the principle of continuous improvement through rapid feedback and iteration.
Option B is correct because gathering feedback continuously and iterating aligns directly with DevOps practices such as CI/CD, observability-driven development, and platform engineering's focus on developer experience. This ensures platforms and applications evolve quickly in response to real-world conditions.
Option A contradicts Agile, which emphasizes active customer collaboration. Option C reflects rigid waterfall methodologies, not Agile or DevOps. Option D enforces silos, which is the opposite of DevOps principles of cross-functional collaboration.
By embracing continuous feedback loops, both Agile and platform engineering accelerate delivery, improve resilience, and ensure that platforms deliver real value to developers and end users. This cultural alignment ensures both speed and quality in cloud native environments.
References:- Agile Manifesto Principles- CNCF Platforms Whitepaper- Cloud Native Platform Engineering Study Guide

NEW QUESTION # 40
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