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Linux Foundation CNPA Exam Syllabus Topics:

Topic	Details
Topic 1	• 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.
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	• 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.

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Linux Foundation Certified Cloud Native Platform Engineering Associate

Sample Questions (Q37-Q42):

NEW QUESTION # 37
In a CI/CD pipeline, why is a build artifact (e.g., a Docker image) pushed to an OCI-compliant registry?

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

Answer: D

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 # 38
In the context of observability, which telemetry signal is primarily used to record events that occur within a system and are timestamped?

- A. Logs
- B. Alerts
- C. Traces
- D. Metrics

Answer: A

Explanation:
Logs are detailed, timestamped records of discrete events that occur within a system. They provide granular insight into what has happened, making them crucial for debugging, auditing, and incident investigations.
Option A is correct because logs capture both normal and error events, often containing contextual information such as error codes, user IDs, or request payloads.
Option B (alerts) are secondary outputs generated from telemetry signals like logs or metrics and are not raw data themselves.
Option C (traces) represent the flow of requests across distributed systems, showing relationships and latency between services but not arbitrary events. Option D (metrics) are numeric aggregates sampled over intervals (e.g., CPU usage, latency), not discrete, timestamped events.
Observability guidance in cloud native systems emphasizes the "three pillars" of telemetry: logs, metrics, and traces. Logs are indispensable for root cause analysis and compliance because they preserve historical event context.
References:- CNCF Observability Whitepaper- OpenTelemetry Documentation (aligned with CNCF)- Cloud Native Platform Engineering Study Guide

NEW QUESTION # 39
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. Manual Resource Tracking
- C. Static Resource Allocation

* D. Declarative Resource Management

Answer: D

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 # 40
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. Implement strict resource quotas and isolation for AI/ML workloads for stability.
* C. Integrate AI/ML steps into standard developer CI/CD systems for maximum reuse
* D. Offer workflows and easy access to specialized AI/ML tools, data, and compute.

Answer: D

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 # 41
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. Employ a GitOps controller to synchronize Git-stored Helm and Crossplane configurations.
* B. Use Helm and Crossplane, with manual GUI-based configuration updates.
* C. Leverage Git for configuration storage, with manual application of Helm and Crossplane.
* D. Integrate Helm and Crossplane into a GitOps-enabled CI/CD pipeline.

Answer: A

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 # 42
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