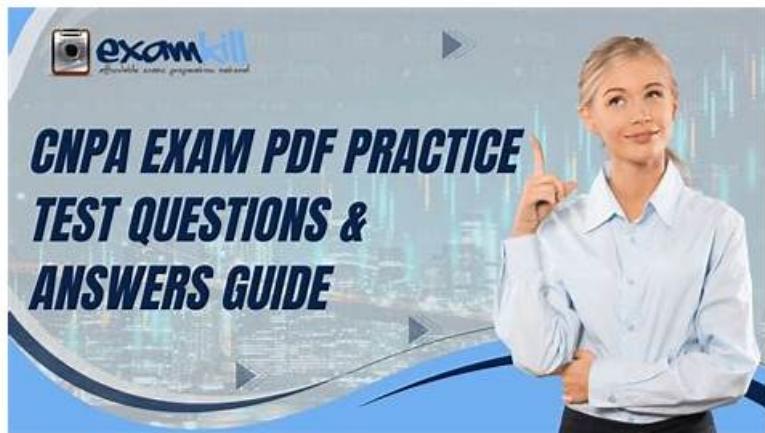


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Linux Foundation Certified Cloud Native Platform Engineering Associate Sample Questions (Q30-Q35):

NEW QUESTION # 30

During a Kubernetes deployment, a Cloud Native Platform Associate needs to ensure that the desired state of a custom resource is achieved. Which component of Kubernetes is primarily responsible for this task?

- A. Kubernetes API Server
- B. Kubernetes Etcd
- C. Kubernetes Scheduler
- D. **Kubernetes Controller**

Answer: D

Explanation:

The Kubernetes Controller is responsible for continuously reconciling the desired state with the actual state of resources, including custom resources. Option D is correct because controllers watch resources (via the API Server), detect deviations, and take corrective actions to match the desired state defined in manifests. For example, a Deployment controller ensures that the number of Pods matches the replica count, while custom controllers manage CRDs.

Option A (Scheduler) assigns Pods to nodes but does not reconcile state. Option B (Etcd) is the key-value store holding cluster state but does not enforce it. Option C (API Server) exposes the Kubernetes API and validates requests but does not enforce reconciliation.

Controllers embody Kubernetes' declarative management principle and are essential for operators, CRDs, and GitOps workflows that rely on automated state enforcement.

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

NEW QUESTION # 31

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

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

Answer: B

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 # 32

Which provisioning strategy ensures efficient resource scaling for an application on Kubernetes?

- **A. Using a declarative approach with Infrastructure as Code (IaC) tools to define resource requirements.**
- B. Manual provisioning of resources based on predicted traffic.
- C. Implementing a fixed resource allocation that does not change regardless of demand.
- D. Using an imperative approach to script resource changes in response to traffic spikes.

Answer: A

Explanation:

The most efficient and scalable strategy is to use a declarative approach with Infrastructure as Code (IaC)

. Option B is correct because declarative definitions specify the desired state (e.g., resource requests, limits, autoscaling policies) in code, allowing Kubernetes controllers and autoscalers to reconcile and enforce them dynamically. This ensures that applications can scale efficiently based on actual demand.

Option A (fixed allocation) is inefficient, leading to wasted resources during low usage or insufficient capacity during high demand.

Option C (manual provisioning) introduces delays, risk of error, and operational overhead. Option D (imperative scripting) is not sustainable for large-scale or dynamic workloads, as it requires constant manual intervention.

Declarative IaC aligns with GitOps workflows, enabling automated, version-controlled scaling decisions.

Combined with Kubernetes' Horizontal Pod Autoscaler (HPA) and Cluster Autoscaler, this approach allows platforms to balance cost efficiency with application reliability.

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

NEW QUESTION # 33

A software development team is struggling to adopt a new cloud native platform efficiently. How can a centralized developer portal, such as Backstage, help improve their adoption process?

- A. Offers a place for developers to share their personal projects and code snippets.
- B. Provides a single access point for all platform services and documentation.
- C. Provides tutorials on unrelated programming languages.
- D. Limits access to platform tools to only senior developers.

Answer: B

Explanation:

Developer portals like Backstage act as the single entry point for platform services, APIs, golden paths, and documentation. Option A is correct because centralizing access greatly reduces the friction developers face when trying to adopt a new platform. Instead of searching across fragmented systems or learning low-level Kubernetes details, developers can find everything in one place, including templates, service catalogs, automated workflows, and governance policies.

Option B is irrelevant to platform adoption. Option C may foster community sharing but does not directly address adoption challenges. Option D contradicts platform engineering principles, which emphasize democratizing access and self-service rather than restricting tools to senior developers.

By providing a unified experience, portals improve discoverability, consistency, and self-service. They reduce cognitive load and support the platform engineering principle of improving developer experience, making adoption of new platforms smoother and more efficient.

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

NEW QUESTION # 34

In what way does an internal platform impact developers' cognitive load?

- A. It reduces cognitive load by hiding complex infrastructure details and providing simple interfaces.
- B. It increases cognitive load by requiring knowledge of all the underlying tools involved.
- C. It shifts all operational complexity onto developers, making them fully responsible for managing the process.
- D. It has no impact on the mental effort required from developers, ensuring their cognitive load remains unchanged.

Answer: A

Explanation:

The primary role of an Internal Developer Platform (IDP) is to reduce cognitive load for developers by abstracting away infrastructure complexity and providing simple, self-service interfaces. Option B is correct because platforms deliver curated golden paths, service catalogs, and APIs that allow developers to focus on application logic instead of learning every underlying infrastructure tool.

Option A is incorrect-platforms are specifically designed to reduce mental overhead. Option C contradicts the platform engineering principle of shifting complexity away from developers. Option D also misrepresents the intent of platforms, which aim to unify and simplify rather than complicate.

By lowering cognitive load, platforms improve productivity, enable faster onboarding, and reduce the likelihood of errors. This aligns with the "platform as a product" model, where developers are treated as customers and the platform is designed to optimize their experience.

References:- CNCF Platforms Whitepaper- Team Topologies (Cognitive Load Principle)- Cloud Native Platform Engineering Study Guide

NEW QUESTION # 35

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