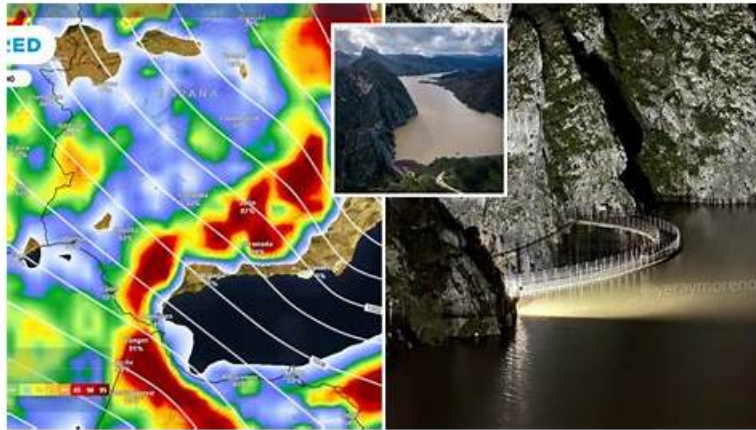


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## Linux Foundation Certified Cloud Native Platform Engineering Associate Sample Questions (Q49-Q54):

### NEW QUESTION # 49

As a Cloud Native Platform Associate, you need to implement an observability strategy for your Kubernetes clusters. Which of the following tools is most commonly used for collecting and monitoring metrics in cloud native environments?

- A. ELK Stack
- B. OpenTelemetry
- C. Prometheus
- D. Grafana

Answer: C

Explanation:

Prometheus is the de facto standard for collecting and monitoring metrics in Kubernetes and other cloud native environments. Option D is correct because Prometheus is a CNCF graduated project designed for multi-dimensional data collection, time-series storage, and powerful querying using PromQL. It integrates seamlessly with Kubernetes, automatically discovering targets such as Pods and Services through service discovery.

Option A (Grafana) is widely used for visualization but relies on Prometheus or other data sources to collect metrics. Option B (ELK Stack) is better suited for log aggregation rather than real-time metrics. Option C (OpenTelemetry) provides standardized instrumentation but is focused on generating and exporting metrics, logs, and traces rather than storage, querying, and alerting. Prometheus plays a central role in platform observability strategies, often paired with Alertmanager for notifications and Grafana for dashboards. Together, they enable proactive monitoring, SLO/SLI measurement, and incident detection, making Prometheus indispensable in cloud native platform engineering.

References:- CNCF Observability Whitepaper- Prometheus CNCF Project Documentation- Cloud Native Platform Engineering Study Guide

### NEW QUESTION # 50

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

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

**Answer: C**

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 incorrect 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 # 51

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

**Answer: B**

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 # 52

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 curate cloud services with built-in guardrails for development teams.**
- C. Abstractions enforce explicit platform team approval before any cloud resource is deployed.
- D. Development teams can arbitrarily deploy cloud services via abstractions.

**Answer: B**

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 # 53

Why is centralized configuration management important in a multi-cluster GitOps setup?

- A. It eliminates the need for automated deployment tools like Argo CD or Flux since configurations are already stored centrally.
- B. It requires all clusters to have the exact same configuration, including secrets and environment variables, to maintain uniformity.
- C. It makes it impossible for different teams to customize configurations for specific clusters, reducing flexibility.
- **D. It ensures consistent and auditable management of configurations and policies across clusters from a single Git repository or set of coordinated repositories.**

**Answer: D**

Explanation:

In a GitOps-driven multi-cluster environment, centralized configuration management ensures that platform teams can maintain consistency, governance, and security across multiple clusters, all while leveraging Git as the single source of truth. Option B is correct because centralization allows teams to enforce policies, apply configurations, and audit changes across environments in a traceable and reproducible way. This supports compliance, as every change is version-controlled, peer-reviewed, and automatically reconciled by tools like Argo CD or Flux.

Option A is misleading-centralized management does not mean clusters must have identical configurations; it enables consistent patterns while still allowing environment-specific overlays or customizations (e.g., dev vs. prod). Option C is incorrect because GitOps tools remain essential for continuous reconciliation between desired and actual state. Option D is also incorrect because centralized management does not remove flexibility-it supports parameterization and customization per cluster.

By combining centralization with declarative configuration and GitOps automation, organizations gain operational efficiency, faster recovery from drift, and improved auditability in multi-cluster scenarios.

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

### NEW QUESTION # 54

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