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Linux Foundation Certified Cloud Native Platform Engineering Associate Sample Questions (Q77-Q82):

NEW QUESTION # 77

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

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

Answer: D

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 # 78

In designing a cloud native platform, which architectural feature is essential for allowing the integration of new capabilities like self-service delivery and observability without specialist intervention?

- A. Static architecture with rigid components.
- **B. Extensible architecture with modular components.**
- C. Centralized integration through specialist API gateways.
- D. Monolithic architecture with no APIs.

Answer: B

Explanation:

An extensible architecture with modular components is crucial for modern platform engineering. Option C is correct because modularity allows new capabilities (e.g., self-service delivery, observability, or security features) to be added or replaced without disrupting the whole system. This approach promotes agility, scalability, and maintainability.

Option A (monolithic architecture) restricts flexibility and slows innovation. Option B (centralized API gateways) may help integration but still creates bottlenecks if every addition requires specialist intervention.

Option D (static architecture) locks the platform into rigid patterns, preventing adaptation to evolving needs.

Extensible, modular design is a hallmark of cloud native platforms. It enables composability, where services (like service mesh, logging, monitoring, or provisioning APIs) can be plugged in as needed. This architecture supports golden paths and self-service abstractions, reducing developer friction while keeping governance intact.

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

NEW QUESTION # 79

If you update a Deployment's replica count from 3 to 5, how does the reconciliation loop respond?

- **A. It will create new Pods to meet the new replica count of 5.**
- B. It will wait for an admin to manually add two more Pod definitions.
- C. It will delete the Deployment and require you to re-create it with 5 replicas.
- D. It will restart the existing Pods before adding any new Pods.

Answer: A

Explanation:

The Kubernetes reconciliation loop ensures that the actual state of a resource matches the desired state defined in its manifest. If the replica count of a Deployment is changed from 3 to 5, option B is correct:

Kubernetes will automatically create two new Pods to satisfy the new desired replica count.

Option A is incorrect because Deployments are not deleted; they are updated in place. Option C contradicts Kubernetes' declarative model-no manual intervention is required. Option D is wrong because Kubernetes does not restart existing Pods unless necessary; it simply adds additional Pods.

This reconciliation process is core to Kubernetes' declarative infrastructure approach, where desired states are continuously monitored and enforced. It reduces human toil and ensures consistency, making it fundamental for platform engineering practices like GitOps.

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

NEW QUESTION # 80

Which key observability signal helps detect real-time performance bottlenecks in a Kubernetes cluster?

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

Answer: A

Explanation:

Metrics are the observability signal most effective at detecting real-time performance bottlenecks in Kubernetes. Option C is correct because metrics provide numerical, time-series data (e.g., CPU usage, memory consumption, request latency, pod restarts) that can be aggregated and monitored continuously. This makes them the best fit for identifying performance degradation and bottlenecks before they escalate into outages.

Option A (logs) capture detailed events but are better for debugging after issues occur. Option B (traces) provide request-level insights across distributed systems but focus on transaction flow rather than cluster-wide performance. Option D (events) record discrete system changes but are not designed for continuous performance monitoring.

Metrics integrate with tools like Prometheus and Grafana, enabling SLO/SLI monitoring and alerting. They allow proactive capacity planning, scaling decisions, and real-time issue detection-critical aspects of cloud native observability.

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

NEW QUESTION # 81

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

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 # 82

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