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Linux Foundation KCNA (Kubernetes and Cloud Native Associate) Exam is a certification program designed for professionals who want to validate their knowledge and skills in the field of cloud computing and containerization. KCNA exam is aimed at individuals who want to demonstrate their proficiency in Kubernetes, a popular container orchestration system, and other cloud-native technologies.

Linux Foundation KCNA Certification Exam is a rigorous, performance-based exam that tests the candidate's ability to perform real-world tasks in Kubernetes and cloud native environments. KCNA Exam is conducted online, and candidates are required to complete a set of hands-on tasks within a specified time frame. KCNA exam is designed to assess the candidate's ability to deploy, manage, and troubleshoot Kubernetes clusters and cloud native applications.

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Linux Foundation Kubernetes and Cloud Native Associate Sample Questions (Q182-Q187):

NEW QUESTION # 182

What are the two goals of Cloud-Native?

- A. Rapid innovation and automation

- B. Slow innovation and stable applications
- C. Frequent deployments and well-defined organizational silos
- **D. Rapid innovation and reliability**

Answer: D

Explanation:

<https://www.redhat.com/en/topics/cloud-native-apps>

NEW QUESTION # 183

You are deploying a pod that requires access to a specific storage volume attached to a particular node. Which Kubernetes feature can you utilize to guarantee the pod is scheduled only on that specific node?

- A. Pod anti-affinity
- **B. Taints and tolerations**
- C. Node anti-affinity
- D. Pod affinity
- **E. Node affinity**

Answer: B,E

Explanation:

You can achieve this by using either `nodeAffinity` or `taints and tolerations`. Similar to the previous question, define `requiredDuringSchedulingIgnoredDuringExecution` to enforce scheduling on the specific node. 'Taints and Tolerations': Apply a taint on the specific node that reflects the volume availability. Then, configure the pod to tolerate that specific taint, ensuring it can only be scheduled on the node with the matching taint. While `podAffinity` and `podAntiAffinity` are useful for grouping or distributing pods, they do not directly guarantee scheduling on a specific node based on volume availability.

NEW QUESTION # 184

What is the main role of the Kubernetes DNS within a cluster?

- A. Provides a DNS as a Service, allowing users to create zones and registries for domains that they own.
- B. Allows Pods running in dual stack to convert IPv6 calls into IPv4 calls.
- **C. Provides consistent DNS names for Pods and Services for workloads that need to communicate with each other.**
- D. Acts as a DNS server for virtual machines that are running outside the cluster.

Answer: C

Explanation:

Kubernetes DNS (commonly implemented by CoreDNS) provides service discovery inside the cluster by assigning stable, consistent DNS names to Services and (optionally) Pods, which makes D correct. In a Kubernetes environment, Pods are ephemeral-IP addresses can change when Pods restart or move between nodes. DNS-based discovery allows applications to communicate using stable names rather than hardcoded IPs.

For Services, Kubernetes creates DNS records like `service-name.namespace.svc.cluster.local`, which resolve to the Service's virtual IP (ClusterIP) or, for headless Services, to the set of Pod endpoints. This supports both load-balanced communication (standard Service) and per-Pod addressing (headless Service, commonly used with StatefulSets). Kubernetes DNS is therefore a core building block that enables microservices to locate each other reliably.

Option A is not Kubernetes DNS's purpose; it serves cluster workloads rather than external VMs. Option B describes a managed DNS hosting product (creating zones/registries), which is outside the scope of cluster DNS. Option C describes protocol translation, which is not the role of DNS. Dual-stack support relates to IP families and networking configuration, not DNS translating IPv6 to IPv4.

In day-to-day Kubernetes operations, DNS reliability impacts everything: if DNS is unhealthy, Pods may fail to resolve Services, causing cascading outages. That's why CoreDNS is typically deployed as a highly available add-on in kube-system, and why DNS caching and scaling are important for large clusters.

So the correct statement is D: Kubernetes DNS provides consistent DNS names so workloads can communicate reliably.

NEW QUESTION # 185

You're using a CI/CD pipeline to deploy a Node.js application to Kubernetes. The application requires environment variables for

configuring database connections and API keys. How would you manage these environment variables in a secure and efficient manner?

- A. Hardcode the environment variables into the Node.js application code.
- **B. Use Kubernetes Secrets to store and inject sensitive environment variables.**
- C. Pass the environment variables as command-line arguments during container startup.
- D. Use Kubernetes ConfigMaps to manage and inject environment variables.
- E. Store the environment variables as plain text files within the Docker image.

Answer: B

Explanation:

Kubernetes Secrets provide a secure and robust solution for managing sensitive data like environment variables, API keys, and database credentials. By using Secrets, you ensure that these values are stored securely within the cluster and only accessible by authorized components.

NEW QUESTION # 186

What makes cloud native technology so important?

- A. It strengthens team
- B. It makes operational centric
- C. It makes data centric
- **D. It removes roadblocks to innovation**
- E. It helps gather software requirements

Answer: D

Explanation:

<https://github.com/cncf/foundation/blob/main/charter.md>

Cloud native technologies empower organizations to build and run scalable applications in modern, dynamic environments such as public, private, and hybrid clouds. Containers, service meshes, microservices, immutable infrastructure, and declarative APIs exemplify this approach.

These techniques enable loosely coupled systems that are resilient, manageable, and observable. Combined with robust automation, they allow engineers to make high-impact changes frequently and predictably with minimal toil.

NEW QUESTION # 187

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