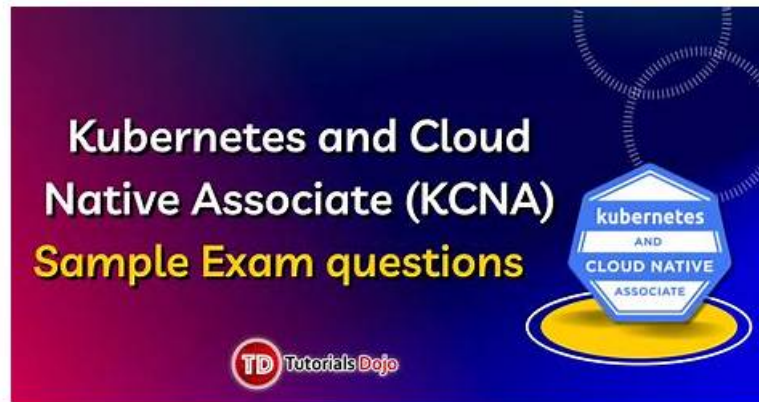


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Linux Foundation Kubernetes and Cloud Native Associate Sample Questions (Q100-Q105):

NEW QUESTION # 100

Your application requires specific network configurations for its pods, including custom DNS settings and network namespaces. How can you achieve this in Kubernetes?

- A. Create a custom network plugin and integrate it with Kubernetes-
- B. Configure a Pod's security context with specific network settings.
- C. Use a DaemonSet to deploy a network configuration agent on each node.
- D. Use a NetworkPolicy to define custom network rules for the pods.
- E. Modify the Kubernetes API server's network configuration settings.

Answer: A

Explanation:

The correct answer is 'Create a custom network plugin and integrate it with Kubernetes'. Kubernetes allows you to extend its networking functionality by developing and integrating custom network plugins. These plugins can provide advanced network configurations, including custom DNS settings, network namespaces, and other specific network requirements. Options A, B, C, and E are not suitable for this scenario. 'NetworkPolicy' is used for network access control, 'Pod security context' defines security settings for a pod, 'DaemonSet' is used for deploying agents on nodes, and modifying the API server's network settings can affect the entire cluster's network configuration.

NEW QUESTION # 101

Which component of the Kubernetes control-plane (master) are all requests to deploy and manage objects posted to?

- A. API Server
- B. Kube-proxy
- C. Controller Manager
- D. Kubelet
- E. ETCD

Answer: A

Explanation:

<https://kubernetes.io/docs/reference/command-line-tools-reference/kube-apiserver/>

Synopsis

The Kubernetes API server validates and configures data for the API objects which include pods, services, replication controllers, and others. The API Server services REST operations and provides the frontend to the cluster's shared state through which all other components interact.

`kube-apiserver [flags]`



NEW QUESTION # 102

You are tasked with deploying a microservices application on Kubernetes. The application relies heavily on communication between its different services, and you need to ensure reliable and secure communication. Which of the following open standards are most relevant for this scenario?

- A. Open Container Initiative (OCI)
- B. Cloud Native Computing Foundation (CNCF)
- C. Open Service Mesh (OSM)
- D. Service Level Objectives (SLOs)
- E. Kubernetes API

Answer: C

Explanation:

Open Service Mesh (OSM) is an open standard focused on providing a secure and reliable way to connect microservices. It helps with service discovery, load balancing, traffic management, and security features, making it ideal for deploying microservices applications on Kubernetes.

NEW QUESTION # 103

You're running a web application in Kubernetes that experiences occasional spikes in traffic. You want to scale your application horizontally to handle these spikes automatically. What Kubernetes resource should you utilize to achieve this?

- A. DaemonSet
- **B. HorizontalPodAutoscaler (HPA)**
- C. StatefulSet
- D. Deployment
- E. Service

Answer: B

Explanation:

A HorizontalPodAutoscaler (HPA) is the primary resource in Kubernetes for automatically scaling Pods based on resource utilization (CPU, memory, etc.) or custom metrics. Deployments, StatefulSets, and DaemonSets define the deployment and management of Pods, while Services handle load balancing and access to the application.

NEW QUESTION # 104

What are cluster-wide objects

- A. Service and Pods
- **B. Volumes and Nodes**
- C. ConfigMaps and Secrets

Answer: B

Explanation:

https://kubernetes.io/docs/concepts/overview/working-with-objects/_print/

4 - Namespaces

In Kubernetes, *namespaces* provides a mechanism for isolating groups of resources within a single cluster. Names of resources need to be unique within a namespace, but not across namespaces. Namespace-based scoping is applicable only for namespaced objects (e.g. *Deployments, Services, etc*) and not for cluster-wide objects (e.g. *StorageClass, Nodes, PersistentVolumes, etc*).



NEW QUESTION # 105

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