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Linux Foundation KCNA Exam is an online, proctored exam that consists of 50 multiple-choice questions. KCNA exam is timed and candidates have two hours to complete it. It is important to note that the exam is not designed to test memorization but rather understanding of the concepts and practical application of Kubernetes and other cloud-native technologies.

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Linux Foundation Kubernetes and Cloud Native Associate Sample Questions (Q61-Q66):

NEW QUESTION # 61
You are running a Kubernetes cluster with three nodes. One node experiences a hardware failure. Which of the following Kubernetes features ensures that your application remains available and running?

- A. Rolling updates
- B. Node affinity
- C. Horizontal Pod Autoscaling
- D. Pod Disruption Budgets
- E. Self-healing

Answer: E

Explanation:
Kubernetes' self-healing capabilities ensure that your application remains available even when a node fails. It automatically detects and restarts failed Pods on healthy nodes, maintaining the desired number of replicas.

NEW QUESTION # 62

You are deploying a web application with two containers: a frontend container for the website and a backend container for the application logic. What is the best practice for defining these containers within a Kubernetes pod?

- A. Create two separate pods, one for the frontend and one for the backend.
- B. Create a single pod with two containers, one for the frontend and one for the backend, connected through environment variables.
- C. Create a single pod with two containers, one for the frontend and one for the backend, connected through a service.
- D. Create a single pod with a single container running both the frontend and backend applications.
- E. Create a single pod with two containers, one for the frontend and one for the backend, connected through a shared volume.

Answer: C

Explanation:

The best practice is to create a single pod with two containers, one for the frontend and one for the backend, connected through a service. This allows for efficient resource utilization, container isolation, and communication through the service. Option A might result in unnecessary complexity and resource usage- Option B would introduce tight coupling and lack of flexibility. Option C might lead to complexity in managing shared volumes. Option D, while possible, might be less efficient than using a service for communication.

NEW QUESTION # 63

You are using a Kubernetes admission controller to enforce security policies. Which of the following admission controller configurations is MOST appropriate for preventing pods from running with the "-privileged" flag?

- A.
- B.

- C.

- D.

- E.

Answer: D

Explanation:
Option E is the most appropriate configuration for preventing pods from running with the '-privileged' flag. This configuration defines a ValidatingAdmissionPolicy named 'privileged-pod-policy' that specifically targets pod creation operations ('CREATE'). It checks the 'securityContext' field of the pod spec and ensures that the 'privileged' field is set to 'false''. By enforcing this rule, the admission controller will block any attempt to create pods with the privileged'' flag, enhancing the security of your Kubernetes cluster.

NEW QUESTION # 64
Which CNCF project is the dominant project with respect to container registries

- A. Harbor
- B. Envoy
- C. Rook
- D. Kubernetes

Answer: A

Explanation:
https://goharbor.io/

NEW QUESTION # 65
What are the key differences between a PersistentVolume (PV) and a PersistentVolumeClaim (PVC) in Kubernetes?

- A. PV represents a request for storage, while PVC represents the actual storage provisioned.
- B. PV is a persistent storage resource defined in Kubernetes while PVC is a request for a PV by a pod or application.
- C. PVC is a resource that can be shared by multiple pods, while PV is always associated with a single pod
- D. PV is a request for storage, while PVC represents the actual storage provisioned.
- E. PVC is a resource that can be shared by multiple pods, while PV is always associated with a single pod

Answer: B

Explanation:
PVs are persistent storage resources defined in Kubernetes that can be used to provision storage to pods. PVCs are requests for a PV by a pod or application, specifying the required storage size, access modes, and other attributes. PVs can be shared among multiple pods, but each pod needs a PVC to access the PV.

NEW QUESTION # 66
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