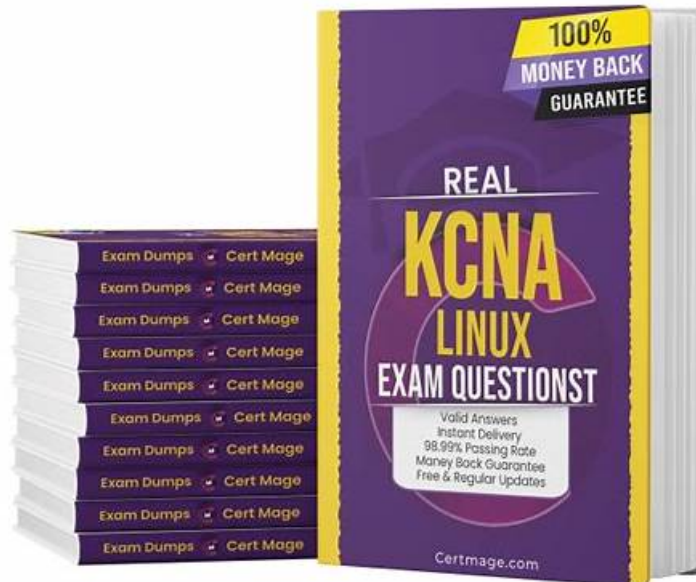


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Linux Foundation Kubernetes and Cloud Native Associate Sample Questions (Q128-Q133):

NEW QUESTION # 128

You are running a multi-tenant Kubernetes cluster. How can you isolate workloads from different tenants to prevent potential security breaches?

- A. Deploying all applications in the same namespace.
- B. Running all applications in a single pod.
- C. Disabling Kubernetes RBAC to allow all users access to all resources.
- **D. Using Network Policies to define communication rules between pods.**
- E. Running all containers with the '-privileged' flag enabled.

Answer: D

Explanation:

Network Policies are a powerful security feature in Kubernetes that allow you to define communication rules between pods. By carefully configuring Network Policies, you can isolate workloads from different tenants, preventing unauthorized access and data leakage between them.

NEW QUESTION # 129

You are developing a serverless application using Azure Functions that processes real-time streaming data
a. How would you ensure reliable and efficient data ingestion from a Kafka topic to your Azure Functions?

- **A. Use Azure Event Hubs to connect Kafka to Azure Functions-**
- B. Use a custom connector to integrate Kafka with Azure Functions.
- C. Use Azure Service Bus to act as a message broker between Kafka and Azure Functions.
- D. Utilize Azure Data Factory to create pipelines for data movement between Kafka and Azure Functions.
- E. Configure Azure Functions to poll Kafka topics directly-

Answer: A

Explanation:

Azure Event Hubs is the recommended approach for connecting Kafka to Azure Functions for real-time streaming data ingestion. It offers high throughput and scalability, making it ideal for handling large volumes of streaming events. Service Bus (B) is suitable for message queuing but not primarily designed for streaming data. Directly polling Kafka topics (C) can be inefficient and might not scale well. Custom connectors (D) can be complex and might lack the required functionality for streaming data ingestion. Data Factory (E) is more focused on data movement and transformation, not real-time streaming.

NEW QUESTION # 130

You are running a resource-intensive application in Kubernetes. You want to reduce costs without impacting performance. Which of the following approaches would be most effective?

- **A. Implement vertical pod autoscaling to adjust the resource allocation based on actual usage.**
- **B. Optimize the application code to reduce resource consumption.**
- C. Reduce the resource requests and limits for the application's pods.
- D. Decrease the number of replicas for the application's deployment.
- E. Migrate the application to a different cloud provider with lower pricing.

Answer: A,B

Explanation:

For resource-intensive applications, the most effective cost reduction strategies focus on optimizing resource usage and application efficiency. Vertical pod autoscaling (VPA) dynamically adjusts resource allocation based on actual usage, ensuring pods have sufficient resources without overprovisioning. Optimizing the application code itself to reduce resource consumption is crucial, as it can significantly impact overall cost. While decreasing replicas or reducing requests/limits might seem tempting, they can negatively impact performance. Migrating to a different cloud provider might offer cost advantages, but it's a complex and potentially disruptive process.

NEW QUESTION # 131

You are running a production-critical application on Kubernetes. You need to ensure that if a pod fails, a new pod is automatically created to replace it. Which Kubernetes feature accomplishes this automatic pod replacement?

- A. Pod Disruption Budget (PDB)
- B. Service

- C. ReplicaSet
- **D. Deployment**
- E. Namespace

Answer: D

Explanation:

Deployments are Kubernetes resources designed to manage the lifecycle of pods. They provide features like rolling updates, automatic restarts, and self-healing. When a pod fails, the Deployment controller detects the failure and automatically creates a new pod to replace it, ensuring high availability.

NEW QUESTION # 132

Your organization is migrating a legacy web application to a serverless architecture on Azure. You want to ensure that the application's state is persisted during and after migration. Which Azure service would be most suitable for storing and managing the application's state?

- A. Azure Service Bus
- B. Azure Event Hubs
- **C. Azure SQL Database**
- D. Azure Storage Account
- **E. Azure Cosmos DB**

Answer: C,E

Explanation:

Azure Cosmos DB and Azure SQL Database are the most suitable services for storing and managing application state during and after migration to a serverless architecture on Azure- Both offer persistent storage and support various data models. Cosmos DB is a fully managed, globally distributed, multi-model database service, while Azure SQL Database is a relational database service- Storage Accounts (B) are primarily for blob storage and may not be the best fit for managing application state. Service Bus (C) is for message queuing, and Event Hubs (D) are for real-time event ingestion- While these services might play a role in the serverless architecture, they are not the primary choice for persisting application state-

NEW QUESTION # 133

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