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Linux Foundation Kubernetes and Cloud Native Associate Sample Questions (Q131-Q136):

NEW QUESTION # 131

The Kubernetes project work is carried primarily by SIGs. What does SIG stand for?

- A. Strategy Implementation Group
- B. Support and Information Group
- C. Special Interest Group

- D. Software Installation Guide

Answer: C

Explanation:

In Kubernetes governance and project structure, SIG stands for Special Interest Group, so A is correct. Kubernetes is a large open source project under the Cloud Native Computing Foundation (CNCF), and its work is organized into groups that focus on specific domains—such as networking, storage, node, scheduling, security, docs, testing, and many more. SIGs provide a scalable way to coordinate contributors, prioritize work, review design proposals (KEPs), triage issues, and manage releases in their area.

Each SIG typically has regular meetings, mailing lists, chat channels, and maintainers who guide the direction of that part of the project. For example, SIG Network focuses on Kubernetes networking architecture and components, SIG Storage on storage APIs and CSI integration, and SIG Scheduling on scheduler behavior and extensibility. This structure helps Kubernetes evolve while maintaining quality, review rigor, and community-driven decision making.

The other options are not part of Kubernetes project terminology. "Software Installation Guide" and the others might sound plausible, but they are not how Kubernetes defines SIGs.

Understanding SIGs matters operationally because many Kubernetes features and design changes originate from SIGs. When you read Kubernetes enhancement proposals, release notes, or documentation, you'll often see SIG ownership and references. In short, SIGs are the primary organizational units for Kubernetes engineering and stewardship, and SIG = Special Interest Group.

NEW QUESTION # 132

Which access control component of Kubernetes is responsible for authorization and decides what requestor is allowed to do?

- **A. Role-based access control 'RBAC'**
- B. Service Account
- C. Deployment

Answer: A

Explanation:

<https://kubernetes.io/docs/reference/access-authn-authz/authorization/>

NEW QUESTION # 133

You are implementing a new security policy for your Kubernetes cluster. The policy requires that all pods running in the cluster must authenticate with a specific identity provider before they are allowed to access any resources. Which Kubernetes component is responsible for enforcing this authentication policy?

- **A. kube-apiserver**
- B. kubelet
- C. etcd
- D. kube-proxy
- E. kubect1

Answer: A

Explanation:

The kube-apiserver component acts as the central control plane for Kubernetes. It handles all communication and requests from other components, including authentication and authorization. It enforces security policies by verifying credentials and granting access based on configured rules.

NEW QUESTION # 134

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

variables.

- E. Create a single pod with two containers, one for the frontend and one for the backend, connected through a shared volume.

Answer: A

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 # 135

You are running a large-scale, microservice-based application in Kubernetes, and you are using HorizontalPodAutoscalers (HPAs) for automatic scaling. Which of the following statements about resource utilization monitoring in this scenario is true?

- A. Monitoring resource utilization at the node level is sufficient for scaling individual microservices.
- B. Monitoring resource utilization is only necessary during peak load periods, not during normal operations.
- C. Resource utilization monitoring is not critical in Kubernetes as the system automatically manages resource allocation and scaling.
- **D. It is essential to monitor resource utilization at both the Pod and namespace levels to get a comprehensive view of resource usage and optimize scaling**
- E. Monitoring resource utilization at the Pod level provides sufficient insights for overall application health and scaling decisions-

Answer: D

Explanation:

Monitoring resource utilization at both the Pod and namespace levels provides a comprehensive understanding of resource usage. Monitoring Pods allows you to identify resource-intensive services and fine-tune their scaling behavior. Monitoring namespaces helps you understand the overall resource consumption and optimize scaling across the entire application. This is crucial in large-scale microservice deployments where resources can be easily exhausted if not carefully monitored

NEW QUESTION # 136

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