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The KCNA exam tests candidates' knowledge of Kubernetes, the leading container orchestration system, and related cloud-native tools such as Prometheus, Fluentd, and Istio. KCNA exam also covers topics such as containerization, microservices architecture, and cloud-native infrastructure. Candidates who pass the exam will be certified as Kubernetes and Cloud Native Associates, demonstrating their proficiency in cloud-native technologies and their ability to work on cloud-native projects.

To prepare for the KCNA certification exam, candidates can take advantage of a variety of resources provided by the Linux Foundation. These include online training courses, study guides, and practice exams. Additionally, candidates can participate in community forums and discussion groups to gain insights and advice from other professionals in the field.

Linux Foundation KCNA (Kubernetes and Cloud Native Associate) Exam is a certification program developed by the Linux Foundation that is designed to test an individual's knowledge and skills in managing and deploying cloud-native applications and infrastructure using Kubernetes. Kubernetes and Cloud Native Associate certification is an entry-level program that is intended for IT professionals who are new to Kubernetes and cloud-native technologies.

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Constantly updated multiple mock exams with a great number of questions that will help you in better self-assessment. Memorize all your previous Kubernetes and Cloud Native Associate (KCNA) exam questions attempts and display all the changes in your results at the end of each Linux Foundation KCNA Practice Exam attempt. Users will be able to customize the KCNA practice test software by time or question types. Supported on all Windows-based PCs.

Linux Foundation Kubernetes and Cloud Native Associate Sample Questions (Q53-Q58):

NEW QUESTION # 53

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

- E. StatefulSet

Answer: A

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 # 54

What is etcd used for in Kubernetes?

- A. Kubernetes API security
- **B. Backend object storage for the Kubernetes API**
- C. Integration with cloud platforms
- D. Network routing for the cluster

Answer: B

Explanation:

etcd serves as a distributed object store that backs the Kubernetes API.

NEW QUESTION # 55

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

- A. Software Installation Guide
- B. Support and Information Group
- **C. Special Interest Group**
- D. Strategy Implementation Group

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 # 56

What kubectl command is used to edit a resource on the server?

- A. kubectl resource modify
- **B. kubectl edit**
- C. kubectl update resource
- D. kubectl resource edit

Answer: B

Explanation:

<https://kubernetes.io/docs/reference/generated/kubect/kubectl-commands#edit>

NEW QUESTION # 57

'kubectl delete -n my-ns po,svc --all' will delete pods and services including uninitialized ones in the namespace 'my-ns'

- A. FALSE
- B. TRUE

Answer: B

Explanation:

<https://kubernetes.io/docs/reference/generated/kubect/kubectl-commands#delete>

NEW QUESTION # 58

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