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Linux Foundation KCNA Certification Exam is recognized as a highly respected and industry-recognized certification. It is designed to test the knowledge and skills of individuals who are responsible for designing, deploying, and managing cloud-native applications. KCNA exam covers a wide range of topics, including Kubernetes, containerization, microservices, and cloud-native architecture. Kubernetes and Cloud Native Associate certification is ideal for individuals who want to advance their careers in the field of cloud-

native computing.

To prepare for the KCNA Exam, candidates can take advantage of various online courses and resources provided by the Linux Foundation. These resources cover the exam topics in-depth and also provide hands-on experience with tools and technologies used in the industry. Passing the KCNA exam requires a deep understanding of Kubernetes and Cloud Native technologies and their practical applications. Upon successful completion of the exam, candidates receive a digital certification that can be shared on their professional profiles, proving their expertise in the field of cloud computing.

## Linux Foundation Kubernetes and Cloud Native Associate Sample Questions (Q199-Q204):

### NEW QUESTION # 199

Which of the following options is true about considerations for large Kubernetes clusters?

- A. Kubernetes supports up to 5000 nodes and recommends no more than 500 Pods per node.
- B. **Kubernetes supports up to 5000 nodes and recommends no more than 110 Pods per node.**
- C. Kubernetes supports up to 1000 nodes and recommends no more than 1000 containers per node.
- D. Kubernetes supports up to 50 nodes and recommends no more than 1000 containers per node.

**Answer: B**

Explanation:

The correct answer is C: Kubernetes scalability guidance commonly cites support up to 5000 nodes and recommends no more than 110 Pods per node. The "110 Pods per node" recommendation is a practical limit based on kubelet, networking, and IP addressing constraints, as well as performance characteristics for scheduling, service routing, and node-level resource management. It is also historically aligned with common CNI/IPAM defaults where node Pod CIDRs are sized for ~110 usable Pod IPs.

Why the other options are incorrect: A and D reference "containers per node," which is not the standard sizing guidance (Kubernetes typically discusses Pods per node). B's "500 Pods per node" is far above typical recommended limits for many environments and would stress IPAM, kubelet, and node resources significantly.

In large clusters, several considerations matter beyond the headline limits: API server and etcd performance, watch/list traffic, controller reconciliation load, CoreDNS scaling, and metrics/observability overhead. You must also plan for IP addressing (cluster CIDR sizing), node sizes (CPU/memory), and autoscaling behavior. On each node, kubelet and the container runtime must handle churn (starts/stops), logging, and volume operations. Networking implementations (kube-proxy, eBPF dataplanes) also have scaling characteristics.

Kubernetes provides patterns to keep systems stable at scale: request/limit discipline, Pod disruption budgets, topology spread constraints, namespaces and quotas, and careful observability sampling. But the exam-style fact this question targets is the published scalability figure and per-node Pod recommendation.

Therefore, the verified true statement among the options is C.

### NEW QUESTION # 200

What is the default service type in Kubernetes?

- A. NodePort
- B. loadBalancer
- C. serviceType
- D. **ClusterIP**

**Answer: D**

Explanation:

<https://kubernetes.io/docs/concepts/services-networking/service/#publishing-services-service-types>

### NEW QUESTION # 201

Fluentd is the only way to export logs from Kubernetes cluster or applications running in cluster

- A. False
- B. True

**Answer: A**

Explanation:

<https://github.com/cncf/landscape#trail-map>

## NEW QUESTION # 202

Your Kubernetes cluster is running multiple applications with varying resource requirements. You need to ensure that each application receives the resources it needs for optimal performance. Which of the following open standards is most relevant to this task?

- A. OpenTracing
- B. Open Container Initiative (OCI)
- C. Service Level Agreements (SLAs)
- D. Kubernetes Horizontal Pod Autoscaling (HPA)
- E. **Kubernetes Resource Quotas**

**Answer: E**

Explanation:

Kubernetes Resource Quotas allow you to set limits on the resources (CPU, memory) that each application can consume within your cluster. This helps ensure that no single application monopolizes resources, affecting the performance of others.

## NEW QUESTION # 203

You are using Prometheus to monitor a microservices-based application. You want to create an alert that triggers when the average response time of a specific service exceeds 500 milliseconds for the last 5 minutes. What Prometheus query can achieve this?

- A.
- B.
- C.
- D.
- E.

**Answer: E**

Explanation:

The query `*avg_over_time(http_request_duration_seconds{service=""}[5m]) > 0.5*` calculates the average response time over the last 5 minutes for the specified service. If this average exceeds 0.5 seconds (500 milliseconds), the alert will trigger. The other options are not suitable for this specific scenario.

## NEW QUESTION # 204

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