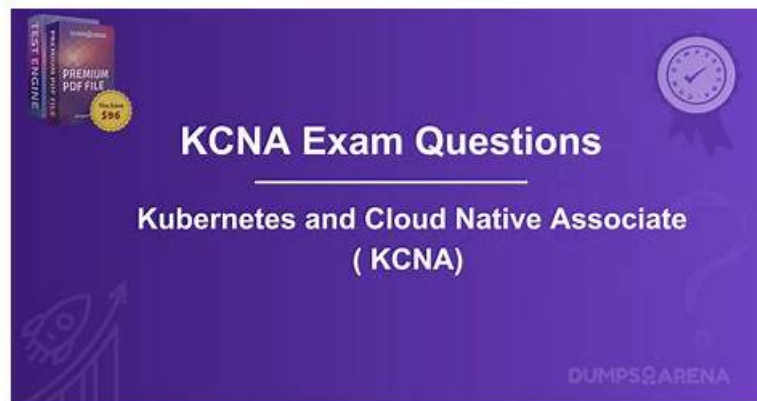


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## Linux Foundation Kubernetes and Cloud Native Associate Sample Questions (Q94-Q99):

### NEW QUESTION # 94

Which of the following best describes horizontally scaling an application deployment?

- **A. The act of adding/removing application instances of the same application to meet demand.**
- B. The act of adding/removing resources to application instances to meet demand.
- C. The act of adding/removing applications to meet demand.
- D. The act of adding/removing node instances to the cluster to meet demand.

**Answer: A**

Explanation:

Horizontal scaling means changing how many instances of an application are running, not changing how big each instance is. Therefore, the best description is C: adding/removing application instances of the same application to meet demand. In Kubernetes, "instances" typically correspond to Pod replicas managed by a controller like a Deployment. When you scale horizontally, you increase or decrease the replica count, which increases or decreases total throughput and resilience by distributing load across more Pods.

Option A is about cluster/node scaling (adding or removing nodes), which is infrastructure scaling typically handled by a cluster autoscaler in cloud environments. Node scaling can enable more Pods to be scheduled, but it's not the definition of horizontal application scaling itself. Option D describes vertical scaling-adding/removing CPU or memory resources to a given instance (Pod/container) by changing requests/limits or using VPA. Option B is vague and not the standard definition. Horizontal scaling is a core cloud-native pattern because it improves availability and elasticity. If one Pod fails, other replicas continue serving traffic. In Kubernetes, scaling can be manual (kubectl scale deployment ... --replicas=N) or automatic using the Horizontal Pod Autoscaler (HPA). HPA adjusts replicas based on observed metrics like CPU utilization, memory, or custom/external metrics (for example, request rate or queue length). This creates responsive systems that can handle variable traffic. From an architecture perspective, designing for horizontal scaling often means ensuring your application is stateless (or manages state externally), uses idempotent request handling, and supports multiple concurrent instances. Stateful workloads can also scale horizontally, but usually with additional constraints (StatefulSets, sharding, quorum membership, stable identity). So the verified definition and correct choice is C.

#### NEW QUESTION # 95

How should folks new to the cloud native ecosystem, go about learning the different aspects of the ecosystem?

- A. by signing up the CNCF slack
- **B. by looking at the cloud native trail-map**
- C. by looking at the cloud native landscape
- D. by reading the Kubernetes documentation

**Answer: B**

Explanation:

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

#### NEW QUESTION # 96

Which of the following resources helps in managing a stateless application workload on a Kubernetes cluster?

- **A. Deployment**
- B. kubectl
- C. DaemonSet
- D. StatefulSet

**Answer: A**

Explanation:

The correct answer is D: Deployment. A Deployment is the standard Kubernetes controller for managing stateless applications. It provides declarative updates, replica management, and rollout/rollback functionality. You define the desired state (container image, environment variables, ports, replica count) in the Deployment spec, and Kubernetes ensures the specified number of Pods are running and updated according to strategy (RollingUpdate by default).

Stateless workloads are ideal for Deployments because each replica is interchangeable. If a Pod dies, a new one can be created anywhere; if traffic increases, replicas can be increased; if you need to update the app, a new ReplicaSet is created and traffic shifts gradually to new Pods. Deployments integrate naturally with Services for stable networking and load balancing.

Why the other options are incorrect:

A DaemonSet ensures one Pod per node (or selected nodes). It's for node-level agents, not generic stateless service replicas.

A StatefulSet is for workloads needing stable identity, ordered rollout, and persistent storage per replica (databases, quorum systems). That's not the typical stateless app case.

kubectl is a CLI tool; it doesn't "manage" workloads as a controller resource.

In real cluster operations, almost every stateless microservice is represented as a Deployment plus a Service (and often an Ingress/Gateway for edge routing). Deployments also support advanced delivery patterns (maxSurge/maxUnavailable tuning) and easy integration with HPA for horizontal scaling. Because the question is specifically "managing a stateless application workload," the Kubernetes resource designed for that is clearly the Deployment.

#### NEW QUESTION # 97

What can you use to add new resource types to your cluster?

- A. CRI-O
- B. init container
- C. Flux
- **D. CustomResourceDefinitions**
- E. start container

**Answer: D**

Explanation:

<https://kubernetes.io/docs/concepts/extend-kubernetes/api-extension/custom-resources/>

### NEW QUESTION # 98

What is the purpose of the kube-proxy component in Kubernetes?

- A. Manages the Kubernetes API server and handles authentication and authorization requests.
- B. Monitors and manages the health and status of Pods and other Kubernetes objects
- C. Provides a secure and reliable connection between the Kubernetes control plane and nodes-
- D. Stores the configuration and state of the Kubernetes cluster
- **E. Enables communication between Pods and services within a Kubernetes cluster.**

**Answer: E**

Explanation:

kube-proxy acts as a network proxy that enables communication between Pods and services within a Kubernetes cluster. It handles service discovery, load balancing, and network rules for Pods.

### NEW QUESTION # 99

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