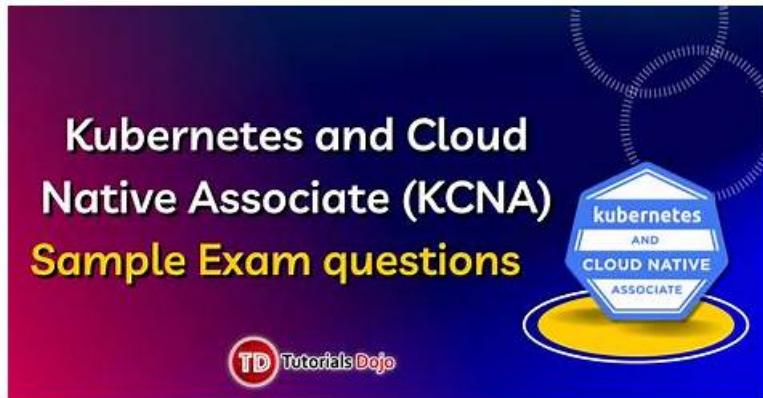


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## Linux Foundation Kubernetes and Cloud Native Associate Sample Questions (Q44-Q49):

### NEW QUESTION # 44

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

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

**Answer: C**

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 # 45

What is the core functionality of GitOps tools like Argo CD and Flux?

- A. They automatically create pull requests when dependencies are outdated.
- B. They track production changes made by a human in a Git repository and generate a human-readable audit trail.
- C. They replace human operations with an agent that tracks Git commands.
- D. **They continuously compare the desired state in Git with the actual production state and notify or act upon differences.**

**Answer: D**

Explanation:

The defining capability of GitOps controllers such as Argo CD and Flux is continuous reconciliation: they compare the desired state stored in Git to the actual state in the cluster and then alert and/or correct drift, making D correct. In GitOps, Git becomes the single source of truth for declarative configuration (Kubernetes manifests, Helm charts, Kustomize overlays). The controller watches Git for changes and applies them, and it also watches the cluster for divergence.

This is more than "auditing human changes" (option A). GitOps does provide auditability because changes are made via commits and pull requests, but the core functionality is the reconciliation loop that keeps cluster state aligned with Git, including optional automated sync/remediation. Option B is not accurate because GitOps is not about tracking user Git commands; it's about reconciling desired state definitions. Option C (automatically creating pull requests for outdated dependencies) is a useful feature in some tooling ecosystems, but it is not the central defining behavior of GitOps controllers.

In Kubernetes delivery terms, this approach improves reliability: rollouts become repeatable, configuration drift is detected, and recovery is simpler (reapply known-good state from Git). It also supports separation of duties: platform teams can control policies and base layers, while app teams propose changes via PRs.

So the verified statement is: GitOps tools continuously reconcile Git desired state with cluster actual state-exactly option D.

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#### NEW QUESTION # 46

You have a Kubernetes cluster with a HorizontalPodAutoscaler (HPA) configured to scale a Deployment. You want to limit the maximum number of Pods the HPA can create to avoid resource exhaustion. How can you achieve this?

- A. Set a resource quota for the namespace where the Deployment is running.
- B. Use the `replicas` field in the Deployment to specify the maximum number of Pods.
- C. **Use the `*maxReplicas*` parameter in the HPA configuration.**
- D. Configure a limit range for the Deployment to restrict the number of Pods.
- E. There is no direct way to limit the maximum number of Pods in an HPA.

**Answer: C**

Explanation:

The `*maxReplicas*` parameter in the HPA configuration directly controls the maximum number of Pods that the HPA can create.

Resource quotas (B) limit resource usage for the entire namespace, not specifically the HPA. Limit ranges (C) define resource limits for Pods, not their total number. The `replicas` field in the Deployment (D) sets the initial number of Pods, not the maximum.

#### NEW QUESTION # 47

Which kubernetes object do deployments use behind the scenes when they need to scale pods?

- A. ReplicaSets
- B. Replication controller
- C. Horizontal pod autoscaler
- D. kubectl

**Answer: A**

Explanation:

<https://kubernetes.io/docs/concepts/workloads/controllers/replicaset/>

#### **NEW QUESTION # 48**

You're developing a serverless application using AWS Lambda that requires access to environment variables for configuration purposes. How would you securely manage and access these environment variables within your Lambda functions?

- A. Utilize AWS Parameter Store to manage environment variables as parameters.
- B. Store environment variables directly in the Lambda function's code.
- C. Use AWS Secrets Manager to store and retrieve sensitive environment variables.
- D. Store environment variables in a separate file and upload it along with the Lambda function's code.
- E. Configure environment variables within the AWS Lambda console.

**Answer: A,C**

Explanation:

The most secure and recommended approaches for managing environment variables in AWS Lambda are to use AWS Secrets Manager (B) and AWS Parameter Store (D). Secrets Manager is specifically designed for storing and retrieving sensitive data like API keys, passwords, and other confidential information. Parameter Store allows you to manage configuration parameters, including environment variables, in a centralized and hierarchical manner. Storing environment variables directly in the code (A) is insecure. Configuring them in the Lambda console (C) is not suitable for managing sensitive data. Storing them in a separate file (E) is less secure and less manageable.

#### **NEW QUESTION # 49**

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