



# KCNA<sup>Q&As</sup>

Kubernetes and Cloud Native Associate (KCNA)

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### QUESTION 1

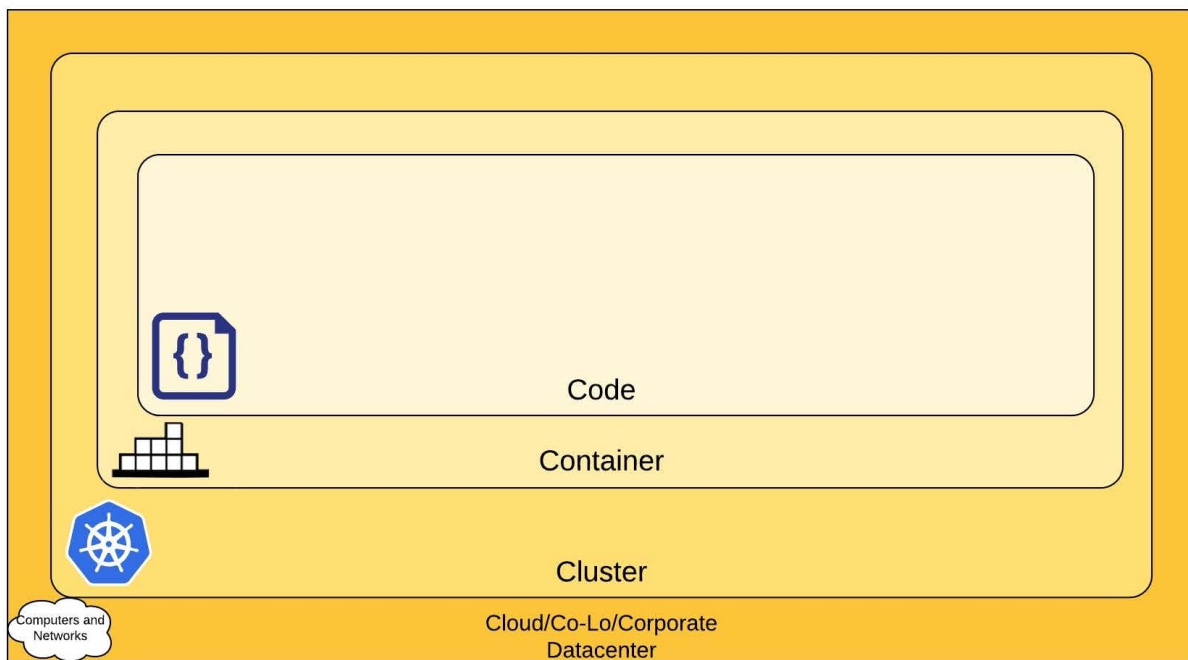
There are three Nodes in a cluster, and want to run exactly one replica of a Pod on each Node. Prefer to automatically create a replica on any new Nodes when they are added.

Which Kubernetes re-source should you use?

- A. DaemonSet
- B. ReplicaSet
- C. NodeSet
- D. StatefulSet
- E. Deployment

Correct Answer: A

<https://kubernetes.io/docs/concepts/workloads/controllers/daemonset/> A DaemonSet runs replicas on all (or just some) Nodes in the cluster.



**QUESTION 2**

kubeadm is an administrative dashboard for kubernetes

A. False

B. True

Correct Answer: A

Explanation: <https://kubernetes.io/docs/reference/setup-tools/kubeadm/>

# Kubeadm

Kubeadm is a tool built to provide `kubeadm init` and `kubeadm join` as best-practice "fast paths" for creating Kubernetes clusters.

kubeadm performs the actions necessary to get a minimum viable cluster up and running. By design, it cares only about bootstrapping, not about provisioning machines. Likewise, installing various nice-to-have addons, like the Kubernetes Dashboard, monitoring solutions, and cloud-specific addons, is not in scope.

Instead, we expect higher-level and more tailored tooling to be built on top of kubeadm, and ideally, using kubeadm as the basis of all deployments will make it easier to create conformant clusters.

**QUESTION 3**

What is the most common way to scale the application in the cloud environment?

A. Parallel Scaling

B. Horizontal Scaling

C. Vertical Scaling

Correct Answer: B

Explanation: <https://kubernetes.io/docs/tasks/run-application/horizontal-pod-autoscale/>



#### QUESTION 4

Flux is built using which toolkit?

- A. CI/CD
- B. DevSecOps
- C. GitOps
- D. DevOps

Correct Answer: C

Explanation: <https://fluxcd.io/>

#### **Flux provides GitOps for both apps and infrastructure**

Flux and Flagger deploy apps with canaries, feature flags, and A/B rollouts. Flux can also manage any Kubernetes resource. Infrastructure and workload dependency management is built in.

#### **Just push to Git and Flux does the rest**

Flux enables application deployment (CD) and (with the help of Flagger) progressive delivery (PD) through automatic reconciliation. Flux can even push back to Git for you with automated container image updates to Git (image scanning and patching).

#### QUESTION 5

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

- A. POD
- B. Deployment
- C. Horizontal pod autoscaler
- D. Api Scheduler
- E. Replicasets

Correct Answer: E

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



# ReplicaSet

A ReplicaSet's purpose is to maintain a stable set of replica Pods running at any given time. As such, it is often used to guarantee the availability of a specified number of identical Pods.

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