



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

Kubernetes and Cloud Native Associate (KCNA)

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### QUESTION 1

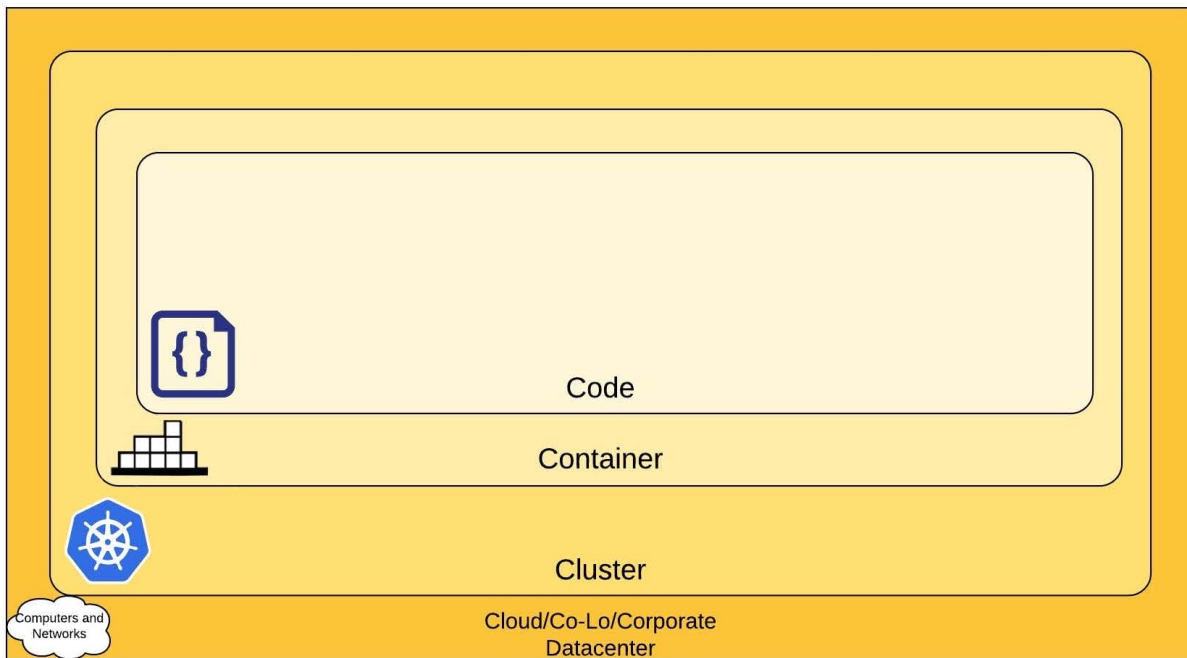
There are three Nodes in a cluster, and want to run exactly one replica of a Pod on each Node. Prefer to automatically create a replica on any new Nodes when they are added.

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**

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

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

Correct Answer: B

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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**QUESTION 3**

Which tool is built on the GitOps toolkit?

- A. Jenkins-X
- B. GitHub Workflow and Actions
- C. Flux
- D. Jenkins
- E. ArgoCD
- F. Travis CI

Correct Answer: C

Explanation: <https://fluxcd.io/#gitops-toolkit>



# GitOps Toolkit

The set of APIs and controllers that make up the runtime for Flux. You can use the GitOps Toolkit to extend Flux, and to build your own systems for continuous delivery.

Note: Argo CD is a GitOps tool and not using GitOps toolkit

## QUESTION 4

What is OPA?

- A. Open Permission Agent
- B. Online Policy Audit
- C. Open Policy Agent
- D. Offline Policy Accessor

Correct Answer: C

Explanation: <https://www.cncf.io/projects/open-policy-agent-opa/>



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## Open Policy Agent (OPA)



Open Policy Agent

**An open source, general-purpose policy engine.**

Open Policy Agent (OPA) was accepted to CNCF on **March 29, 2018** and is at the **Graduated** project maturity level.



#### QUESTION 5

Open Container Initiative set container standards for

- A. Code, Build, Distribute, Deploy containers
- B. Run, build, and image
- C. Code, Build, Distribute containers
- D. Run, Build, Distribute containers

Correct Answer: D

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