



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

Kubernetes and Cloud Native Associate (KCNA)

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### QUESTION 1

Which of the following is an advantage a cloud-native microservices application has over monolithic applications?

- A. Cloud-native microservices applications tend to be faster and more responsive than monolithic applications.
- B. Cloud-native microservice applications tend to be easier to troubleshoot.
- C. Cloud-native microservice applications tend to be easier to scale and perform updates on.

Correct Answer: C

Explanation: Cloud-native applications tend to be microservice base, they have individual services that can be independently scaled, updated and rolled back. This makes scaling and update operations simpler and less risky.

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### QUESTION 2

Which of the following is an example of vertical scaling?

- A. Using cluster autoscaler
- B. Adding more resources (memory and/or cpu) to a kubernetes node
- C. Adding more nodes to kubernetes cluster
- D. Adding more replica pods to a deployment

Correct Answer: B

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

Horizontal scaling means that the response to increased load is to deploy more Pods. This is different from *vertical* scaling, which for Kubernetes would mean assigning more resources (for example: memory or CPU) to the Pods that are already running for the workload.

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### QUESTION 3

Which part of a Kubernetes cluster is responsible for running container workloads?

- A. Worker Node
- B. kube-proxy
- C. Control plane
- D. etcd



Correct Answer: A

Explanation: Worker Nodes are responsible for executing containerized workloads.

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#### QUESTION 4

What framework allows developers to write code without worrying about the servers and operating systems they will run on?

- A. Virtualization
- B. Docker
- C. Serverless D. Kubernetes

Correct Answer: C

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#### QUESTION 5

Which CNCF project is the dominant project with respect to container registries

- A. Envoy
- B. Harbor
- C. Kubernetes
- D. Rook

Correct Answer: B

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

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