KCNA Q&As

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. Pre-fer to

automatically create a replica on any new Nodes when they are added.

Which Kubernetes re-source should you use?

A. DaemonSet

B. ReplicaSet

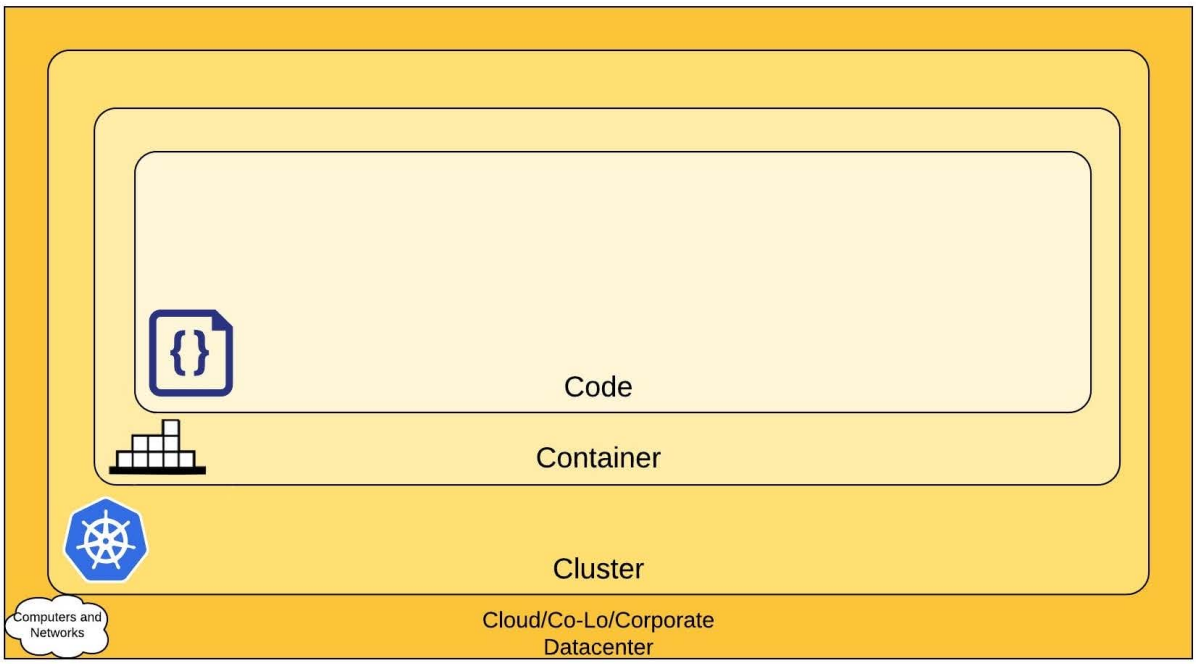
C. NodeSet

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.


Code
Container
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QUESTION 2

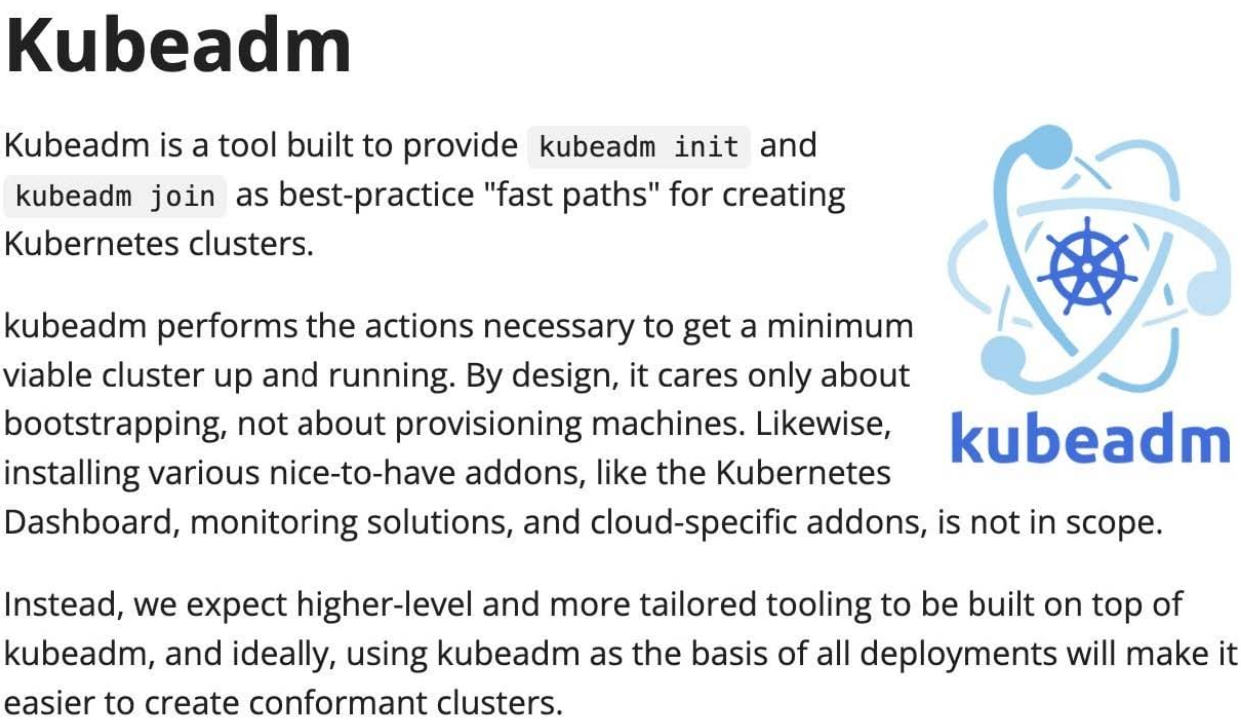
kubeadm is an administrative dashboard for kubernetes

A. False

B. True

Correct Answer: A

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



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/