KCNA Q&As

Kubernetes and Cloud Native Associate (KCNA)

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QUESTION 1

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

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

QUESTION 2

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

QUESTION 3

What is the name of the Kubernetes agent that runs on each worker nodes?

A. kubelet

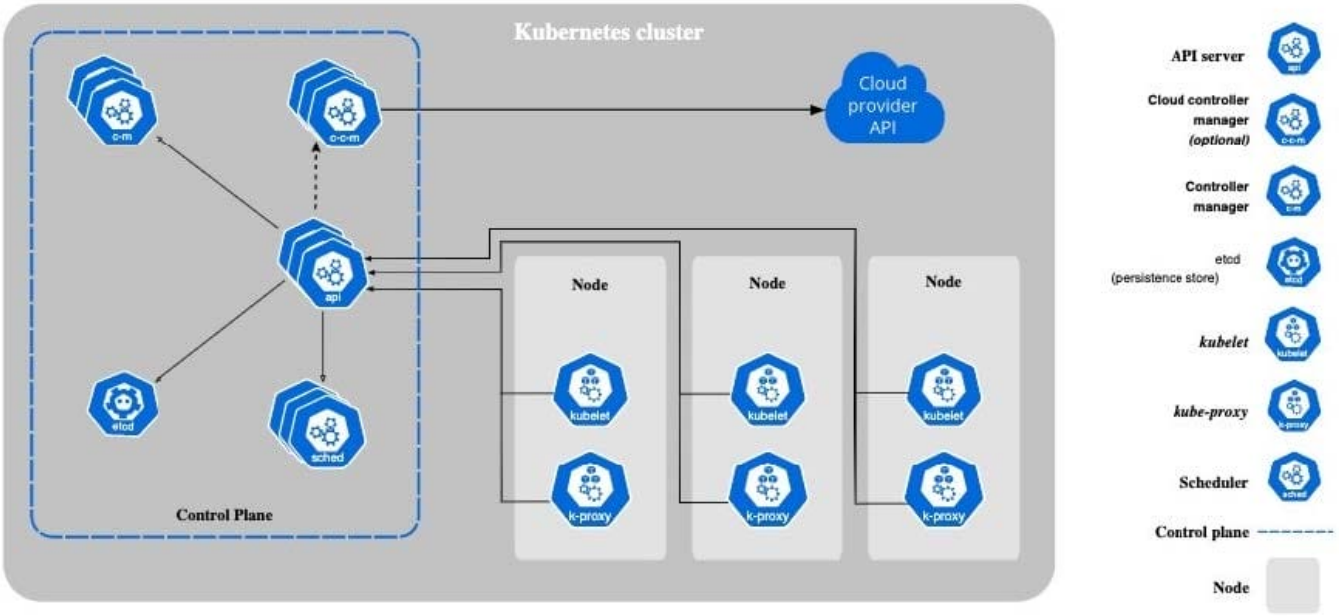
B. systemd

C. kube-proxy

D. pod

Correct Answer: A

Explanation: https://kubernetes.io/docs/concepts/overview/components/



QUESTION 4

To run a startup task before a Pod\\'s container starts up. What Kubernetes feature can help you accomplish this?

A. Init container

B. Sidecar container

C. Startup probe

D. DaemonSet

Correct Answer: A

Explanation: https://kubernetes.io/docs/concepts/workloads/pods/init-containers/

A Pod can have multiple containers running apps within it, but it can also have one or more init containers, which are run before the app containers are started.

Init containers are exactly like regular containers, except:

- Init containers always run to completion.
- Each init container must complete successfully before the next one starts.

If a Pod's init container fails, the kubelet repeatedly restarts that init container until it succeeds. However, if the Pod has a `restartPolicy` of Never, and an init container fails during startup of that Pod, Kubernetes treats the overall Pod as failed.

To specify an init container for a Pod, add the `initContainers` field into the Pod specification, as an array of `container` items (similar to the app `containers` field and its contents). See Container in the API reference for more details.

QUESTION 5

How can you achieve cost optimization in the cloud environment?

A. Use On Demand instances

B. Use Spot Instances

C. Use Reserved Instances

D. Use Bare Metal

Correct Answer: C