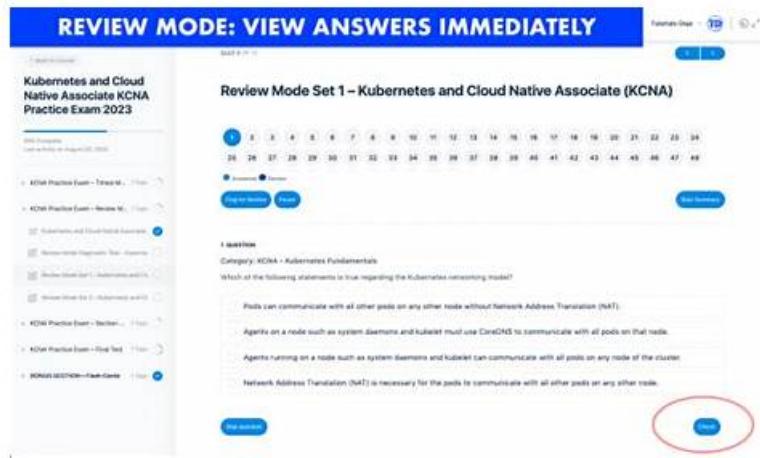


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Linux Foundation Kubernetes and Cloud Native Associate Sample Questions (Q24-Q29):

NEW QUESTION # 24

What does CNCF stand for?

- A. Cloud Native Cloud Foundation
- B. Cloud Native Container Foundation
- C. Cloud Native Computing Foundation

Answer: C

Explanation:

<https://www.cncf.io/about/who-we-are/>

The Cloud Native Computing Foundation (CNCF) hosts critical components of the global technology infrastructure. CNCF brings together the world's top developers, end users, and vendors and runs the largest open source developer conferences. CNCF is part of the nonprofit Linux Foundation.

NEW QUESTION # 25

What is scheduling in Kubernetes

- A. Determining when to execute a cron-job
- B. Joining a new nodes to the clusters
- C. Setting a time for automated tasks
- D. **Assigning pods to nodes**

Answer: D

Explanation:

<https://kubernetes.io/docs/concepts/scheduling-eviction/>

Scheduling



- Kubernetes Scheduler
- Assigning Pods to Nodes
- Pod Overhead
- Taints and Tolerations
- Scheduling Framework
- Scheduler Performance Tuning
- Resource Bin Packing for Extended Resources

NEW QUESTION # 26

What are container runtimes with Kubernetes?

- A. containerd
- B. CRI-O
- C. Dockershim
- D. lxd

Answer: A,B

Explanation:

<https://kubernetes.io/docs/setup/production-environment/container-runtimes/>

Container Runtimes

Note: Dockershim has been removed from the Kubernetes project as of release 1.24. Read the [Dockershim Removal FAQ](#) for further details.

You need to install a [container runtime](#) into each node in the cluster so that Pods can run there. This page outlines what is involved and describes related tasks for setting up nodes.

Kubernetes 1.24 requires that you use a runtime that conforms with the [Container Runtime Interface \(CRI\)](#).

See [CRI version support](#) for more information.

This page provides an outline of how to use several common container runtimes with Kubernetes.

- [containerd](#)
- [CRI-O](#)
- [Docker Engine](#)
- [Mirantis Container Runtime](#)



Note:

Kubernetes releases before v1.24 included a direct integration with Docker Engine, using a component named *dockershim*. That special direct integration is no longer part of Kubernetes (this removal was [announced](#) as part of the v1.20 release). You can read [Check whether Dockershim deprecation affects you](#) to understand how this removal might affect you. To learn about migrating from using dockershim, see [Migrating from dockershim](#).

If you are running a version of Kubernetes other than v1.24, check the documentation for that version.

NEW QUESTION # 27

You are deploying a pod that requires access to a specific storage volume attached to a particular node. Which Kubernetes feature can you utilize to guarantee the pod is scheduled only on that specific node?

- A. Pod anti-affinity
- B. Pod affinity
- C. **Node affinity**
- D. Node anti-affinity
- E. Taints and tolerations

Answer: C,E

Explanation:

You can achieve this by using either `nodeAffinity` or `taints and tolerations: 'nodeAffinity'`. Similar to the previous question, define `'requiredDuringSchedulingIgnoredDuringExecution'` to enforce scheduling on the specific node. `Taints and Tolerations`: Apply a taint on the specific node that reflects the volume availability. Then, configure the pod to tolerate that specific taint, ensuring it can only be scheduled on the node with the matching taint. While `podAffinity` and `podAntiAffinity` are useful for grouping or distributing pods, they do not directly guarantee scheduling on a specific node based on volume availability.

NEW QUESTION # 28

How does Horizontal Pod autoscaling work in Kubernetes?

- A. The Horizontal Pod Autoscaler controller adds more pods when the load is above the configured threshold, and reduces the number of pods when the load is below.

- B. The Horizontal Pod Autoscaler controller adds more pods to the specified DaemonSet when the load is above the configured threshold, and reduces the number of pods when the load is below.
- C. The Horizontal Pod Autoscaler controller adds more CPU or memory to the pods when the load is above the configured threshold, and reduces CPU or memory when the load is below.
- D. The Horizontal Pod Autoscaler controller adds more pods when the load is above the configured threshold, but does not reduce the number of pods when the load is below.

Answer: A

Explanation:

Horizontal Pod Autoscaling (HPA) adjusts the number of Pod replicas for a workload controller (most commonly a Deployment) based on observed metrics, increasing replicas when load is high and decreasing when load drops. That matches D, so D is correct. HPA does not add CPU or memory to existing Pods—that would be vertical scaling (VPA). Instead, HPA changes spec.replicas on the target resource, and the controller then creates or removes Pods accordingly. HPA commonly scales based on CPU utilization and memory (resource metrics), and it can also scale using custom or external metrics if those are exposed via the appropriate Kubernetes metrics APIs.

Option A is vertical scaling behavior, not HPA. Option B is incorrect because HPA can scale down as well as up (subject to stabilization windows and configuration), so it's not "scale up only." Option C is incorrect because HPA does not scale DaemonSets in the usual model; DaemonSets are designed to run one Pod per node (or per selected nodes) rather than a replica count. HPA targets resources like Deployments, ReplicaSets (via Deployment), and StatefulSets in typical usage, where replica count is a meaningful knob.

Operationally, HPA works as a control loop: it periodically reads metrics (for example, via metrics-server for CPU/memory, or via adapters for custom metrics), compares the current value to the desired target, and calculates a desired replica count within min/max bounds. To avoid flapping, HPA includes stabilization behavior and cooldown logic so it doesn't scale too aggressively in response to short spikes or dips. You can configure minimum and maximum replicas and behavior policies to tune responsiveness.

In cloud-native systems, HPA is a key elasticity mechanism: it enables services to handle variable traffic while controlling cost by scaling down during low demand. Therefore, the verified correct answer is D.

NEW QUESTION # 29

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