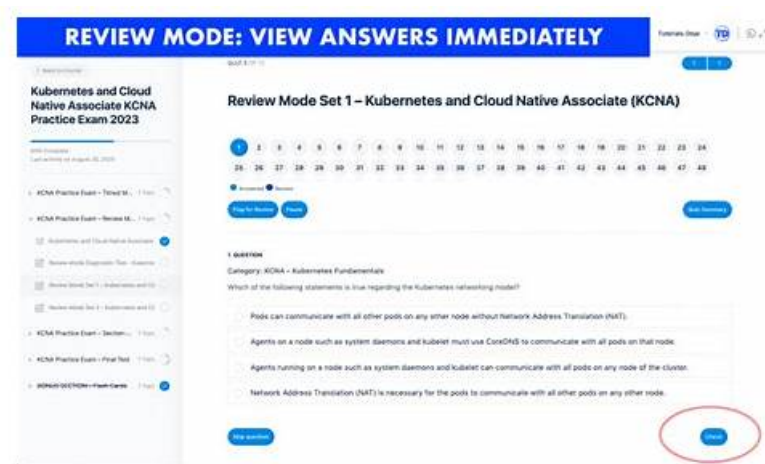


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Linux Foundation Kubernetes and Cloud Native Associate Sample Questions (Q133-Q138):

NEW QUESTION # 133

You have a Kubernetes cluster with two worker nodes. One node has 8 CPU cores and 16GB RAM, while the other has 4 CPU cores and 8GB RAM. You deploy a pod with resource requests of 2 CPU cores and 4GB RAM. Where is this pod most likely to be scheduled?

- A. Either node, as Kubernetes will randomly choose.
- **B. The node with 8 CPU cores and 16GB RAM.**
- C. The node with the highest available CPU capacity.
- D. The node with the highest available memory capacity.

- E. The node with 4 CPU cores and 8GB RAM.

Answer: B

Explanation:

Kubernetes will try to schedule pods on nodes that have enough resources to meet the pod's requests. In this case, both nodes have enough resources, but the node with 8 CPU cores and 16GB RAM has more available resources, making it the more likely candidate for the pod to be scheduled on.

NEW QUESTION # 134

You need to restrict access to your Kubernetes cluster from a specific IP address range. How would you implement this security measure?

- A. Configure a NetworkPolicy to allow traffic only from the specified IP range.
- B. Use a Service of type 'LoadBalancer' with a specific IP address to restrict access.
- C. Configure firewall rules on the Kubernetes nodes to block traffic from unauthorized IP ranges.
- D. Use kubectl to modify the Kubernetes API server's authorization settings.
- E. Create a custom Admission Controller to filter requests based on the source IP

Answer: A

Explanation:

The most appropriate way to restrict access to a Kubernetes cluster from a specific IP address range is to configure a NetworkPolicy. NetworkPolicies allow you to define ingress and egress rules based on source and destination IP addresses, ports, and other network attributes. This provides a flexible and granular way to control network traffic to and from pods within the cluster. Options B, C, and D are not suitable for this scenario as they focus on API server authorization, admission control, or node-level firewall rules, which are not specifically designed for IP address-based access control. Option E is incorrect because Service of type 'LoadBalancer' primarily deals with external access and doesn't provide direct IP address-based access control within the cluster-

NEW QUESTION # 135

What element allows Kubernetes to run Pods across the fleet of nodes?

- A. The API server.
- B. The kubelet.
- C. The node server.
- D. The etcd static pods.

Answer: B

Explanation:

The correct answer is B (the kubelet) because the kubelet is the node agent responsible for actually running Pods on each node. Kubernetes can orchestrate workloads across many nodes because every worker node (and control-plane node that runs workloads) runs a kubelet that continuously watches the API server for PodSpecs assigned to that node and then ensures the containers described by those PodSpecs are started and kept running. In other words, the kube-scheduler decides where a Pod should run (sets spec.nodeName), but the kubelet is what makes the Pod run on that chosen node.

The kubelet integrates with the container runtime (via CRI) to pull images, create sandboxes, start containers, and manage their lifecycle. It also reports node and Pod status back to the control plane, executes liveness/readiness/startup probes, mounts volumes, and performs local housekeeping that keeps the node aligned with the declared desired state. This node-level reconciliation loop is a key Kubernetes pattern: the control plane declares intent, and the kubelet enforces it on the node.

Option C (API server) is critical but does not run Pods; it is the control plane's front door for storing and serving cluster state.

Option A ("node server") is not a Kubernetes component. Option B (etcd static pods) is a misunderstanding: etcd is the datastore for Kubernetes state and may run as static Pods in some installations, but it is not the mechanism that runs user workloads across nodes.

So, Kubernetes runs Pods "across the fleet" because each node has a kubelet that can realize scheduled PodSpecs locally and keep them healthy over time.

NEW QUESTION # 136

What is Open Container Initiative 'OCI'?

- A. A protocol for communicating with the kubernetes api
- B. An open standard for managing service mesh in kubernetes
- C. An organization that creates open standards for containers
- D. The governing body of the Cloud Native Computing Foundation 'CNCF'

Answer: C

Explanation:

<https://opencontainers.org/>

NEW QUESTION # 137

Which role is responsible of creating service level indicator 'SLI', service level objective 'SLO', & Service Level Agreements 'SLA'

- A. DevOps
- B. GitOps
- C. Security and compliance engineer
- D. Developer
- E. Site reliability engineer 'SRE'

Answer: E

Explanation:

<https://www.atlassian.com/incident-management/kpis/sla-vs-slo-vs-sli>

NEW QUESTION # 138

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