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## Quiz Linux Foundation - Professional KCNA - Test Kubernetes and Cloud Native Associate Assessment

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## Linux Foundation Kubernetes and Cloud Native Associate Sample Questions (Q182-Q187):

### NEW QUESTION # 182

You have a Kubernetes cluster with multiple worker nodes. Node1 has a label `role: web`, Node2 has a label `*role: database*`, and Node3 has no labels. You deploy a pod with a `nodeSelector` set to `'role: web'`. Which node(s) is/are eligible for the pod to be scheduled on?

- A. Node1 and Node2.
- B. **Only Node1**.
- C. Only Node3.
- D. only Node2.
- E. Any of the nodes.

**Answer: B**

Explanation:

The `nodeSelector` field explicitly specifies that the pod must be scheduled on a node with the label `role: web`. Only Node1 has this label, so it is the only eligible node. The absence of labels or the presence of different labels on other nodes does not satisfy the pod's scheduling requirements.

**NEW QUESTION # 183**

You are running a distributed database service in Kubernetes. The database requires secure communication between its pods and external clients. What Kubernetes networking features can you leverage to achieve this?

- A. Use a combination of Services, Ingress, and TLS termination to secure external access.
- B. Enable mutual TLS authentication between database pods and clients.
- C. Use a Service of type 'LoadBalancer' with TLS termination.
- D. Configure NetworkPolicies to allow only encrypted traffic from external clients.
- E. Implement a custom network plugin that enforces encryption for all communication.

**Answer: A,B,C**

Explanation:

The correct answers are A, D, and E. - A: Using a 'LoadBalancer' with TLS termination allows secure communication between external clients and the database service through an encrypted HTTPS connection. - D Implementing mutual TLS authentication between database pods and clients ensures that only authorized clients can access the database, further enhancing security. - E. Combining 'Services', 'Ingress', and TLS termination can provide comprehensive security for external access to the database service. This allows you to manage ingress traffic with

'Ingress' resources and secure the connection with TLS termination on the 'LoadBalancer' or ingress controller. While 'NetworkPolicies' can help control network traffic, they cannot directly enforce encryption. 'Custom network plugins' can implement specific encryption features, but they might require more complex configuration and integration. The best approach is to use a combination of Kubernetes features to achieve secure communication between pods and external clients.

**NEW QUESTION # 184**

You're running a Kubernetes cluster on a public cloud provider, and you want to optimize for cost efficiency. Which of the following strategies is LEAST effective for achieving this goal?

- A. Always use the most powerful and expensive node types to ensure high performance and availability.
- B. Configure resource quotas to limit the resources allocated to namespaces and deployments.
- C. Implement a horizontal pod autoscaler (HPA) to automatically scale deployments based on resource utilization.
- D. Create a separate namespace for each workload type to isolate resource consumption and apply different resource quotas.
- E. Utilize spot instances or preemptible nodes for workloads that can tolerate interruptions.

**Answer: A**

Explanation:

Using the most powerful and expensive node types consistently is the LEAST effective strategy for cost optimization. It leads to overprovisioning and unnecessary expense. The other strategies are effective for reducing costs: spot instances/preemptible nodes offer discounts, HPA optimizes resource allocation, resource quotas limit consumption, and separate namespaces with tailored quotas improve resource management.

**NEW QUESTION # 185**

Which of these components is part of the Kubernetes Control Plane?

- A. kube-proxy
- B. cloud-controller-manager
- C. CoreDNS
- D. kubelet

**Answer: B**

#### Explanation:

The Kubernetes control plane is the set of components responsible for making cluster-wide decisions (like scheduling) and detecting and responding to cluster events (like starting new Pods when they fail). In upstream Kubernetes architecture, the canonical control plane components include kube-apiserver, etcd, kube-scheduler, and kube-controller-manager, and when running on a cloud provider—the cloud-controller-manager. That makes option B the correct answer: cloud-controller-manager is explicitly a control plane component that integrates Kubernetes with the underlying cloud.

The cloud-controller-manager runs controllers that talk to cloud APIs for infrastructure concerns such as node lifecycle, routes, and load balancers. For example, when you create a Service of type LoadBalancer, a controller in this component is responsible for provisioning a cloud load balancer and updating the Service status. This is clearly control-plane behavior: reconciling desired state into real infrastructure state.

Why the others are not control plane components (in the classic classification): kubelet is a node component (agent) responsible for running and managing Pods on a specific node. kube-proxy is also a node component that implements Service networking rules on nodes. CoreDNS is usually deployed as a cluster add-on for DNS-based service discovery; it's critical, but it's not a control plane component in the strict architectural list.

So, while many clusters run CoreDNS in kube-system, the Kubernetes component that is definitively "part of the control plane" among these choices is cloud-controller-manager (B).

#### NEW QUESTION # 186

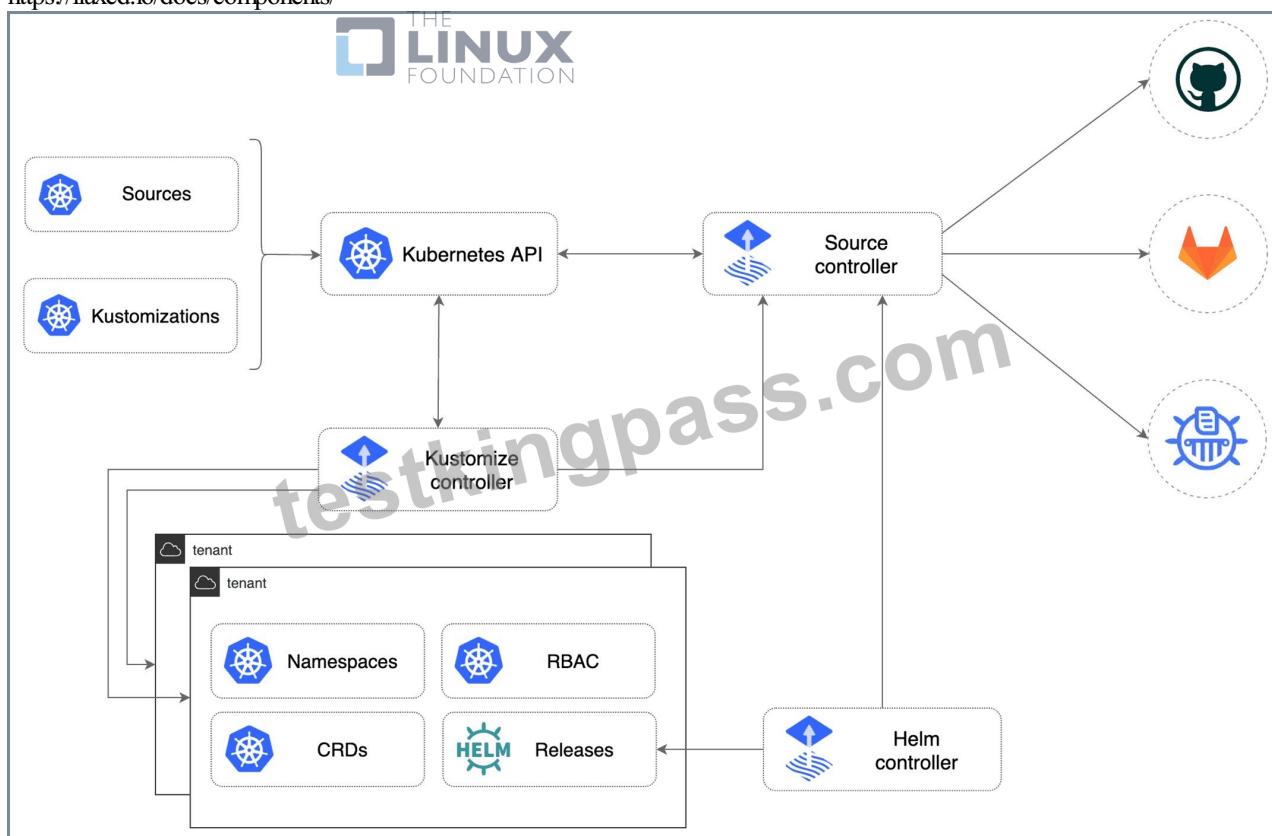
What do GitOps tools do in kubernetes?

- A. They allow us to store software code in Git
- B. They manage the source code of kubernetes itself
- C. They allow us to store container images in repositories
- D. **They allow us to make changes to a kubernetes cluster using a Git repository**

#### Answer: D

Explanation:

<https://fluxcd.io/docs/components/>



#### NEW QUESTION # 187

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