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Kubernetes has become the go-to platform for managing containerized applications in the cloud, and it is widely used by organizations of all sizes. The Linux Foundation KCNA Certification Exam is an ideal way to demonstrate your knowledge of Kubernetes and the underlying technologies that power cloud-native applications. KCNA Exam covers a range of topics, including containerization, orchestration, networking, security, and more.

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## Linux Foundation Kubernetes and Cloud Native Associate Sample Questions (Q165-Q170):

### NEW QUESTION # 165

You are using a Kubernetes deployment to run a web application. You want to roll out a new version of the application with minimal downtime. Which strategy can be used to achieve this?

- A. BlueGreen
- B. Immutable
- C. RollingUpdate
- D. Recreate
- E. Canary

**Answer: A,C,E**

Explanation:

RollingUpdate, BlueGreen, and Canary are all strategies that can be used to roll out new application versions with minimal downtime. RollingUpdate updates Pods one by one, ensuring that there are always healthy Pods running. BlueGreen creates two separate environments, one for the old version and one for the new version, and then switches traffic over to the new environment. Canary gradually rolls out the new version to a small subset of users before making it available to everyone. Option 'A' (Recreate) would completely stop the old Pods before creating new ones, which could lead to downtime. Option 'E' (Immutable) is not a deployment strategy for rolling out updates.

#### NEW QUESTION # 166

You are running a Kubernetes cluster in a public cloud environment. Which of the following security best practices is MOST important for protecting your cluster against external threats?

- A. Deploying the Kubernetes control plane in a public subnet.
- B. Running all containers with the '-privileged' flag enabled.
- C. Disabling Kubernetes RBAC and granting full access to all users.
- D. Deploying all applications in the same namespace.
- E. Using a network firewall to restrict access to the Kubernetes API server.

**Answer: E**

Explanation:

Using a network firewall to restrict access to the Kubernetes API server is crucial for protecting your cluster against external threats in a public cloud environment. By limiting access to the API server to authorized users and services, you can significantly reduce the risk of unauthorized access and malicious attacks.

#### NEW QUESTION # 167

You have a Kubernetes cluster with a deployment named 'my-app' that has a replica count of 3. You need to temporarily scale it down to 1 replica. Which command would you use?

- A. `kubectl patch deployments my-app -type=json-patch='{"spec":{"replicas":1}}'`
- B. `kubectl scale deployments my-app --replicas=1`
- C. `kubectl edit deployment my-app --replicas=1`
- D. `kubectl set scale deployments my-app --replicas=1`
- E. `kubectl apply -f my-app-deployment.yaml --replicas=1`

**Answer: B,D**

Explanation:

Both '`kubectl scale deployments my-app --replicas=1`' and '`kubectl set scale deployments my-app --replicas=1`' are valid commands to scale down the deployment. Option 'C' also works but it is more verbose. Option 'B' would edit the deployment configuration, which is not the desired outcome in this case. Option 'E' would apply a new configuration, which is also not ideal.

#### NEW QUESTION # 168

Consider the following Kubernetes pod YAML definition:

```

apiVersion: v1
kind: Pod
metadata:
  name: my-pod
spec:
  containers:
  - name: nginx
    image: nginx:1.14.2
    resources:
      requests:
        cpu: 100m
        memory: 200Mi
      limits:
        cpu: 200m
        memory: 400Mi
  nodeSelector:
    kubernetes.io/hostname: node1
  tolerations:
  - key: "key1"
    operator: "Equal"
    value: "value1"
    effect: "NoSchedule"

```

Which of the following statements is TRUE about this pod's scheduling behavior?

- A. The pod will not be scheduled on any node that has the taint `*key1: value1: NoSchedule*`, as long as the `•nodeSelector•` condition is met.
- B. The pod will be scheduled on any node that meets the `•nodeSelector•` and `•tolerations•` conditions, but it may be evicted if resources become scarce.
- C. The pod will only be scheduled on a node with the label `'key1: value1'`, regardless of available resources.
- D. The pod will only be scheduled on a node that has at least 100m CPU and 200Mi memory available.
- E. The pod will only be scheduled on a node with the label `'kubernetes.io/hostname: node1'`, regardless of available resources.

**Answer: A**

Explanation:

The `•nodeSelector•` field instructs Kubernetes to schedule the pod ONLY on a node labeled with `'kubernetes.io/hostname: node1'`. However, the `•tolerations•` field specifies that the pod can tolerate a taint with the key `'key1'`, the value `'value1'`, and the effect `'NoSchedule'`. This means that the pod will NOT be scheduled on a node that has that taint applied, even if the node meets the `•nodeSelector•` condition. The `•requests•` and `•limits•` fields specify resource requirements for the pod, but they are not the primary factor determining the pod's scheduling in this case. The `•tolerations•` field takes precedence due to its `'NoSchedule'` effect.

### NEW QUESTION # 169

You are deploying a microservices application in Kubernetes. Each microservice has its own deployment and service. How can you enforce network policy rules to restrict communication between these microservices, allowing only authorized communication?

- A. Use network namespaces to isolate the microservices and restrict communication between them.
- B. Configure the deployments to use specific ports and restrict access to those ports through the services.
- C. Use network policies to define rules for specific pods or groups of pods, allowing communication only between authorized microservices.
- D. Use Kubernetes namespaces to isolate the microservices and restrict communication between them.
- E. Configure network policies at the cluster level to define rules for all pods in the cluster.

**Answer: C**

Explanation:

The most effective way to enforce network policy rules for microservices in Kubernetes is to use network policies. Network policies allow you to define specific rules for communication between pods or groups of pods. By creating network policies, you can specify which pods are allowed to communicate with each other, based on their labels, namespaces, or other criteria. This allows you to restrict communication between microservices, ensuring that only authorized communication is allowed. While namespaces can help to isolate microservices logically, they do not provide granular network control. Configuring ports and services can restrict access to specific services, but it does not provide the level of control needed to enforce communication rules between microservices.

## NEW QUESTION # 170

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