

Quiz Linux Foundation - KCNA - Kubernetes and Cloud Native Associate—Professional Valid Test Syllabus



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Linux Foundation Kubernetes and Cloud Native Associate (KCNA) exam is a certification program designed to test the skills and knowledge of individuals who are interested in working with Kubernetes and other cloud-native technologies. KCNA Exam is intended to provide a standardized measure of proficiency in these areas, which can be used by employers to evaluate potential candidates for job openings or by individuals to demonstrate their expertise to colleagues and clients.

Linux Foundation Kubernetes and Cloud Native Associate Sample Questions (Q178-Q183):

NEW QUESTION # 178

What is container orchestration?

- A. Adding code to a container image so it can run as a container
- B. Spinning a new containers to replace old ones

- C. Packaging code and all of its dependencies into a single executable
- D. Using automation to manage containers

Answer: D

Explanation:

<https://www.redhat.com/en/topics/containers/what-is-container-orchestration>

Container orchestration automates the deployment, management, scaling, and networking of containers. Enterprises that need to deploy and manage hundreds or thousands of **Linux® containers** and hosts can benefit from container orchestration.

Container orchestration can be used in any environment where you use containers. It can help you to deploy the same application across different environments without needing to redesign it. And **microservices** in containers make it easier to orchestrate services, including storage, networking, and security.

NEW QUESTION # 179

You are running a database service in Kubernetes with a HorizontalPodAutoscaler (HPA) configured. The HPA is set to scale based on CPU utilization. However, you notice that the database often experiences spikes in CPU usage that cause the HPA to scale up unnecessarily. How can you refine the HPA configuration to avoid these unnecessary scaling events?

- A. Increase the CPU utilization threshold for scaling up to a higher value.
- B. Configure the HPA to scale down the database only when CPU utilization drops below a certain threshold for a specific duration.
- C. Implement a caching layer to reduce the database load.
- D. Use a combination of options A and D to fine-tune the HPA behavior.
- E. Use a custom metric, such as database connection count, to trigger scaling events.

Answer: A,B,D,E

Explanation:

Several approaches can be used to refine the HPA configuration. Increasing the CPU utilization threshold (A) prevents scaling for minor spikes. Using a custom metric like database connection count (B) provides a more accurate measure of database load. Configuring the HPA to scale down only after a sustained drop in CPU utilization (D) avoids over-reacting to temporary spikes. Combining these techniques (E) can further refine the HPA behavior.

NEW QUESTION # 180

Consider the following scenario: You are using GitOps with ArgoCD to manage a deployment in your Kubernetes cluster. You modify a configuration file in your Git repository, but the change is not reflected in the cluster. What are the possible reasons for this issue?

- A. The ArgoCD application is not properly configured to watch the specific Git repository for changes.
- B. The Kubernetes cluster is not accessible by ArgoCD.
- C. The Git repository is not accessible by ArgoCD.
- D. The ArgoCD server is not running or is not properly configured.
- E. The deployment configuration in the Git repository is invalid or does not match the desired state.

Answer: A,B,C,D,E

Explanation:

All of the listed options could potentially cause a change in the Git repository not to be reflected in the cluster. A: ArgoCD must be running and configured correctly to monitor the repository for changes. B: ArgoCD needs access to the repository to fetch the configuration. C: An invalid or incorrect configuration in the repository would prevent ArgoCD from applying the desired changes. D: ArgoCD must be able to communicate with the Kubernetes cluster to apply the configuration. E: The specific application in ArgoCD needs to be configured to monitor the correct repository and namespace. Identifying the specific issue requires troubleshooting the configuration and the system's connectivity.

NEW QUESTION # 181

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

Answer: E

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 # 182

What are default kubernetes namespaces?

- A. default, kube-public, kube-systems, kube-node-lease
- B. kube-default, kube-public, kube-system, kube-node-lease
- C. default, kube-public, kube-system, kube-node-leases
- D. default, kube-public, kube-system, kube-node-lease

Answer: D

Explanation:

<https://kubernetes.io/docs/concepts/overview/working-with-objects/namespaces/>

You can list the current namespaces in a cluster using:

```
kubectl get namespace
```

NAME	STATUS	AGE
default	Active	1d
kube-node-lease	Active	1d
kube-public	Active	1d
kube-system	Active	1d

Kubernetes starts with four initial namespaces:

- **default** The default namespace for objects with no other namespace
- **kube-system** The namespace for objects created by the Kubernetes system
- **kube-public** This namespace is created automatically and is readable by all users (including those not authenticated). This namespace is mostly reserved for cluster usage, in case that some resources should be visible and readable publicly throughout the whole cluster. The public aspect of this namespace is only a convention, not a requirement.
- **kube-node-lease** This namespace holds [Lease](#) objects associated with each node. Node leases allow the kubelet to send [heartbeats](#) so that the control plane can detect node [failure](#).



NEW QUESTION # 183

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