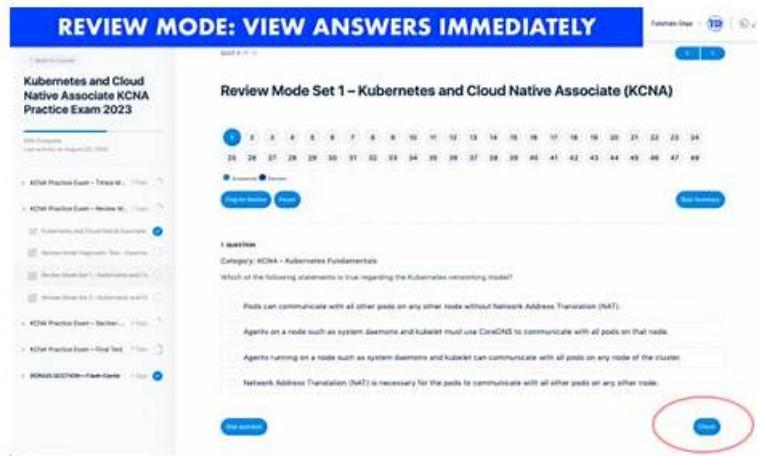


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REVIEW MODE: VIEW ANSWERS IMMEDIATELY

Kubernetes and Cloud Native Associate KCNA Practice Exam 2023

Review Mode Set 1 – Kubernetes and Cloud Native Associate (KCNA)

1 question

Category: KCNA - Kubernetes Fundamentals

Which of the following statements is true regarding the Kubernetes networking model?

Pods can communicate with all other pods on any other node without Network Address Translation (NAT).

Agents on a node such as system daemon and kubelet must use CoreDNS to communicate with all pods on that node.

Agents running on a node such as system daemon and kubelet can communicate with all pods on any node of the cluster.

Network Address Translation (NAT) is necessary for the pods to communicate with all other pods on any other node.

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Linux Foundation Kubernetes and Cloud Native Associate Sample Questions (Q87-Q92):

NEW QUESTION # 87

Which authentication method allows JWTs to authenticate?

- A. Client 'TLS' certificates
- B. OPA gatekeeper
- C. OpenId connect**
- D. Anonymous

Answer: C

NEW QUESTION # 88

Your Kubernetes cluster is running multiple applications with varying resource requirements. You need to ensure that each application receives the resources it needs for optimal performance. Which of the following open standards is most relevant to this task?

- A. Service Level Agreements (SLAs)
- B. Open Container Initiative (OCI)
- C. Kubernetes Horizontal Pod Autoscaling (HPA)
- D. **Kubernetes Resource Quotas**
- E. OpenTracing

Answer: D

Explanation:

Kubernetes Resource Quotas allow you to set limits on the resources (CPU, memory) that each application can consume within your cluster. This helps ensure that no single application monopolizes resources, affecting the performance of others.

NEW QUESTION # 89

Which of the following best describes the way kubernetes Role-based access control (RBAC) works?

- A. Kubernetes RBAC lists which operations on which resources are denied to users
- B. Kubernetes RBAC is responsible for authenticating subjects such as users and groups
- C. **Kubernetes RBAC states which users can perform which actions against which re-source**
- D. Kubernetes does not do RBAC

Answer: C

Explanation:

<https://kubernetes.io/docs/reference/access-authn-authz/rbac/>

Using RBAC Authorization

Role-based access control (RBAC) is a method of regulating access to computer or network resources based on the roles of individual users within **your organization**.

RBAC authorization uses the `rbac.authorization.k8s.io` API group to drive authorization decisions, allowing you to dynamically configure policies through the Kubernetes API.

To enable RBAC, start the API server with the `--authorization-mode` flag set to a comma-separated list that includes `RBAC` ; for example:

```
kube-apiserver --authorization-mode=Example,RBAC --other-options --more-options
```

NEW QUESTION # 90

Continuous delivery is _____.

- A. Manually deploying the code
- B. **Automatically deploying code to [container or server] environment**
- C. Coding, Building and Testing the code

Answer: B

NEW QUESTION # 91

You're running a web application in Kubernetes that experiences occasional spikes in traffic. You want to scale your application horizontally to handle these spikes automatically. What Kubernetes resource should you utilize to achieve this?

- A. StatefulSet
- B. Service
- C. DaemonSet
- D. Deployment
- E. HorizontalPodAutoscaler (HPA)

Answer: E

Explanation:

A HorizontalPodAutoscaler (HPA) is the primary resource in Kubernetes for automatically scaling Pods based on resource utilization (CPU, memory, etc.) or custom metrics. Deployments, StatefulSets, and DaemonSets define the deployment and management of Pods, while Services handle load balancing and access to the application.

NEW QUESTION # 92

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