

Pass Guaranteed Linux Foundation - KCNA - High Pass-Rate Kubernetes and Cloud Native Associate Certification Exam



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Linux Foundation KCNA (Kubernetes and Cloud Native Associate) Exam is a certification program designed to test the knowledge and skills of individuals who are working with Kubernetes and other cloud-native technologies. Kubernetes has become the de facto standard for container orchestration, and with the increasing adoption of cloud-native technologies, the demand for certified professionals is on the rise.

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Once an individual has successfully completed the Linux Foundation KCNA Exam, they will be considered a certified Kubernetes and Cloud Native Associate, which can provide significant benefits for their career. Kubernetes and Cloud Native Associate certification is recognized globally and can help individuals demonstrate their expertise and credibility in the field of cloud-native technologies. Additionally, individuals who hold this certification are well-positioned to pursue other Kubernetes and cloud-native certifications offered by the Linux Foundation, which can further enhance their skills and expertise in this rapidly-evolving technology landscape.

Linux Foundation Kubernetes and Cloud Native Associate Sample Questions (Q169-Q174):

NEW QUESTION # 169

A _____ is a ready-to-run software package, containing everything needed to run an application.

- A. Docker
- B. Container Runtime
- C. Container Repository
- **D. Container Image**

Answer: D

Explanation:

<https://kubernetes.io/docs/concepts/containers/#container-images>

Container images

A **container image** is a ready-to-run software package, containing everything needed to run an application: the code and any runtime it requires, application and system libraries, and default values for any essential settings.

By design, a container is immutable: you cannot change the code of a container that is already running. If you have a containerized application and want to make changes, you need to build a new image that includes the change, then recreate the container to start from the updated image.

NEW QUESTION # 170

What does CNCF stand for?

- **A. Cloud Native Computing Foundation**
- B. Cloud Native Container Foundation
- C. Cloud Native Cloud Foundation

Answer: A

Explanation:

<https://www.cncf.io/about/who-we-are/>

The Cloud Native Computing Foundation (CNCf) hosts critical components of the global technology infrastructure. CNCF brings together the world's top developers, end users, and vendors and runs the largest open source developer conferences. CNCF is part of the nonprofit Linux Foundation.

NEW QUESTION # 171

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

- E. Deploying the Kubernetes control plane in a public subnet.

Answer: A

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 # 172

Consider a serverless application on AWS Lambda that needs to read data from an Amazon S3 bucket. Which of the following is the most efficient way to access data from the S3 bucket within the Lambda function?

- **A. Stream data directly from S3 to the Lambda function using the S3 API.**
- B. Utilize AWS Kinesis to stream data from S3 to the Lambda function.
- C. Use the AWS SDK for Python (Bot03) to access S3 objects directly.
- D. Use AWS Lambda's built-in S3 client to read data from the bucket.
- E. Download the entire S3 object into the Lambda function's memory.

Answer: A

Explanation:

Streaming data directly from S3 to the Lambda function using the S3 API is the most efficient approach. It avoids downloading the entire object into memory reduces memory usage, and minimizes latency Option A is inefficient for large objects. Option B and C are valid methods but might introduce unnecessary overhead. Option E uses Kinesis for streaming but is overkill for a simple S3-to-Lambda data access scenario.

NEW QUESTION # 173

You have a Kubernetes cluster with multiple namespaces. You are running different applications in separate namespaces and want to ensure that HPAs in each namespace are not interfering with each other. Which of the following measures should you take?

- **A. Configure resource quotas for each namespace to prevent resource over-allocation by HPAs.**
- **B. Create a custom controller to manage HPAs across multiple namespaces and coordinate scaling decisions.**
- C. There is no need for any specific measures as HPAs are isolated by default within their respective namespaces.
- D. Ensure that the •minReplicas• and •maxReplicaS values for HPAs across namespaces are aligned.
- E. Use a single HPA for all applications in all namespaces.

Answer: A,B

Explanation:

You need to ensure that HPAs are not competing for resources across namespaces- Resource quotas (C) limit resource consumption within each namespace, preventing HPAs from consuming resources intended for other applications. A custom controller (D) can be used to manage HPAs across multiple namespaces, coordinating scaling decisions to avoid resource contention and optimize utilization across the cluster. While options A and B might seem relevant, they are not effective solutions for preventing interference between HPAs in different namespaces. Option E is incorrect; HPAs operate within their namespaces, but resource contention can occur if not managed properly.

NEW QUESTION # 174

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