

# Quiz Linux Foundation - CKAD - Linux Foundation Certified Kubernetes Application Developer Exam Updated Test Testking



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## What is the difference between Kubernetes and OpenStack?

OpenStack is a service-oriented cloud computing platform. It is massive and complex. You can't use it to develop multi-container applications. It enables multiple users to access a cloud platform. OpenStack is a framework that can be used by many different cloud providers. You can install it on your own infrastructure or any cloud provider. Windows support is not available but Linux and macOS are supported. You can use it with IaaS or PaaS providers. Allows you to create private clouds with different authentication methods and storage options. Kubernetes provides a lot of additional configuration options. Cluster size is limited and can't be changed. You must deploy all your applications and then adjust each application's requirements. Not that easy to use, and you need to know a lot of details about it. Concepts are different from Kubernetes. You can use it if you have no programming skills or Linux knowledge. Absolutely necessary for implementing Kubernetes. It is scalable. Good support for written documentation. Great support for developing open-source software.

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## Reliable CKAD Exam Camp - CKAD Exam Questions And Answers

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## Linux Foundation Certified Kubernetes Application Developer Exam Sample Questions (Q99-Q104):

NEW QUESTION # 99

You have a Kubernetes Job that runs a Python script for data processing. The script takes 30 minutes to complete, and you need to ensure that the Job is retried up to 3 times if it fails. Additionally, you want the Job to complete within a maximum of 45 minutes. Create a Job YAML file with appropriate configuration.

**Answer:**

Explanation:

See the solution below with Step by Step Explanation.

Explanation:

Solution (Step by Step) :

1. Create a Job YAML file:

2. Apply the Job YAML file: `bash kubectl apply -f data-processing-job.yaml` 3. Monitor the Job: `bash kubectl get jobs -w` This will show the status of the Job, including its completion status and retries, if any. 4. Examine the Job's Pods: `bash kubectl get pods -l job-name=data-processing-job` You can use the 'kubectl logs' command to check the logs of the Pods created by the Job to investigate any potential failures. - 'backoffLimit: 3': This specifies that the Job can be retried up to 3 times in case of failures. - 'activeDeadlineSeconds: 2700': This sets the maximum duration for the Job to run (2700 seconds, which is equal to 45 minutes). If the Job exceeds this time limit, it will be automatically terminated. - 'restartPolicy: Never': This ensures that Pods created by the Job will not be restarted automatically. - 'command: ["python", "data\_processing\_script.py"]': This defines the command to execute inside the container. - 'resources-requests': This defines the minimum resource requirements for the container, including CPU and memory. - 'resources-limits': This can be used to define maximum resource limits for the container. This setup will attempt to run the data processing script. If it fails, it will be retried up to 3 times, with an increasing delay between each retry. The Job will be terminated after 45 minutes if it does not complete successfully.,

**NEW QUESTION # 100**

Task

A deployment is failing on the cluster due to an incorrect image being specified. Locate the deployment, and fix the problem.

**Answer:**

Explanation:

See the solution below

Explanation

`create deploy hello-deploy --image=nginx --dry-run=client -o yaml > hello-deploy.yaml` Update deployment image to `nginx:1.17.4`:  
`kubectl set image deploy/hello-deploy nginx=nginx:1.17.4`

**NEW QUESTION # 101**

You are building a Kubernetes application that requires access to sensitive credentials stored in a Secret. The application should only have access to specific keys within the Secret, and you need to ensure that the Secret is updated without disrupting the application's functionality. How would you design and implement this functionality using Custom Resource Definitions (CRDs) and Kubernetes resources?

**Answer:**

Explanation:

See the solution below with Step by Step Explanation.

Explanation:

Solution (Step by Step) :

1. Define a CRD for Secret Access:

- Create a Custom Resource Definition (CRD) named 'SecretAccess', representing the required access to the Secret. This CRD will define the following fields:

- 'secretName': The name of the Secret containing the sensitive information.

- 'allowedKeys': A list of keys from the Secret that the application is allowed to access.

- The 'SecretAccess' CRD schema will be validated to ensure that the specified Secret and keys exist.

2. Create a Controller for SecretAccess CRD. - Implement a Kubernetes controller that watches for changes in 'SecretAccess' resources. - When a new 'SecretAccess' resource is created or updated, the controller: - Validates the specified Secret and allowed keys. - Creates or updates a new 'Secret' resource with the requested keys from the original Secret. - Updates the 'SecretAccess' resource status with the name of the generated Secret.

3. Create a SecretAccess Resource: - Define a 'SecretAccess' resource specifying the target Secret and allowed keys.

4. Update the Application to Use the Generated Secret: - Modify your application to use the generated Secret, which will contain only the allowed keys. - The generated Secret name can be retrieved from the 'SecretAccess' resource status. - The application can access the Secret using the Kubernetes API, similar to accessing a regular Secret.
- - The SecretAccess CRD acts as a resource request for access to specific keys from a Secret\_ - The controller ensures that only the requested keys are made available to the application, enhancing security. - By generating a separate Secret for each application with limited access, you prevent accidental exposure of sensitive data. - The automated update mechanism of the controller allows you to update the original Secret without disrupting the application.,

### NEW QUESTION # 102

Exhibit:

□ Context

You have been tasked with scaling an existing deployment for availability, and creating a service to expose the deployment within your infrastructure.

Task

Start with the deployment named kdsn00101-deployment which has already been deployed to the namespace kdsn00101 . Edit it to:

- \* Add the func=webFrontEnd key/value label to the pod template metadata to identify the pod for the service definition
- \* Have 4 replicas

Next, create a deployment in namespace kdsn00101 a service that accomplishes the following:

- \* Exposes the service on TCP port 8080
- \* is mapped to the pods defined by the specification of kdsn00101-deployment
- \* Is of type NodePort
- \* Has a name of cherry

- A. Solution:

□  
□  
□

- B. Solution:

□  
□  
□  
□

**Answer: B**

### NEW QUESTION # 103

You are building a microservice application that consists of multiple Pods. Each Pod needs to access a shared database hosted in a separate Pod. How would you create a ConfigMap to store the database connection details and make it available to all Pods in the application?

**Answer:**

Explanation:

See the solution below with Step by Step Explanation.

Explanation:

Solution (Step by Step) :

1). Create a ConfigMap:

- Create a ConfigMap named 'database-config' to store the database connection details.
- Replace 'your-database-hostname' , 'your-database-port' , 'your-database-user' , and 'your-database-password' with the actual connection information.

□ 2. Mount the ConfigMap to Pods: - In the Deployment configurations for each microservice Pod, mount the 'database-config' ConfigMap as a volume. - Use 'envFrom' to include the ConfigMap's data as environment variables for the application container - This way, the application can access the database connection details directly through environment variables.

□ 3. Verify the Connection: - Once the Pods are deployed, you can check the application logs to ensure that they are successfully connecting to the database using the provided connection details.

## NEW QUESTION # 104

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