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Linux Foundation KCNA (Kubernetes and Cloud Native Associate) Exam is a certification program that is designed to provide individuals with the skills and knowledge required to work with Kubernetes and cloud-native technologies. Kubernetes and Cloud Native Associate certification is ideal for individuals who are interested in pursuing a career in the field of cloud computing or for those who want to enhance their skills in this area. The program covers various areas such as containerization, orchestration, networking, security, and storage.

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Linux Foundation KCNA Certification Exam is ideal for individuals who are interested in pursuing a career in cloud computing or DevOps. It is also suitable for IT professionals who want to enhance their skills in Kubernetes and cloud native technologies to support their organization's digital transformation initiatives. KCNA Exam covers a wide range of topics, including Kubernetes architecture, deployment, networking, storage, security, and troubleshooting.

Linux Foundation Kubernetes and Cloud Native Associate Sample Questions (Q70-Q75):

NEW QUESTION # 70

You are building a CI/CD pipeline to deploy a Java application to Kubernetes. The application requires a specific Java version and some libraries to run correctly. How would you ensure that the correct runtime environment is available in the Kubernetes cluster?

- A. Use Kubernetes ConfigMaps to define the environment variables for Java and libraries.
- B. Pre-install the Java version and libraries on the Kubernetes nodes.
- C. Include the necessary Java version and libraries in the Dockerfile for the application image.
- D. Use Kubernetes Init Containers to install the required dependencies before starting the main container.
- E. Use Kubernetes Secrets to store the Java version and library information securely.

Answer: C,D

Explanation:

The most common approaches are to include the required Java and libraries within the Dockerfile to create a self-contained image, or to use Kubernetes Init Containers. Init containers run before the main application container, installing the dependencies, ensuring the proper runtime environment is available.

NEW QUESTION # 71

You're using a cloud provider's managed Kubernetes service with different pricing tiers for nodes. You want to optimize costs by using a mix of node types based on your workload needs. Which of the following is the most appropriate approach?

- A. Use only the most cost-effective node type for all deployments, regardless of their resource requirements.
- B. Manually choose the node type for each deployment based on its resource requirements.
- C. Utilize node pools with different node types and configure a node selector for deployments to target the appropriate pool.
- D. Use a third-party tool to analyze your cluster's resource utilization and recommend the best node types for each workload.
- E. Configure a horizontal pod autoscaler (HPA) to automatically choose the optimal node type based on workload demands.

Answer: C,D

Explanation:

Using a mix of node types based on workload needs is a key cost optimization strategy. Node pools with different node types allow you to run resource-intensive workloads on powerful nodes and less demanding workloads on less expensive nodes. A node selector can be used to target specific pools for deployments. Third-party tools can analyze resource utilization and provide recommendations for node type assignments. Manually choosing node types for each deployment is inefficient and prone to errors. HPA is designed for scaling pods, not choosing node types.

NEW QUESTION # 72

What kubectl command is used to edit a resource on the server?

- A. kubectl update resource
- B. kubectl resource modify
- C. kubectl resource edit
- D. kubectl edit

Answer: D

Explanation:

<https://kubernetes.io/docs/reference/generated/kubectl/kubectl-commands#edit>

edit

Edit a resource from the default editor.

The edit command allows you to directly edit any API resource you can retrieve via the command-line tools. It will open the editor defined by your KUBE_EDITOR, or EDITOR environment variables, or fall back to 'vi' for Linux or 'notepad' for Windows. You can edit multiple objects, although changes are applied one at a time. The command accepts file names as well as command-line arguments, although the files you point to must be previously saved versions of resources.

Editing is done with the API version used to fetch the resource. To edit using a specific API version, fully-qualify the resource, version, and group.

The default format is YAML. To edit in JSON, specify "-o json".

The flag --windows-line-endings can be used to force Windows line endings, otherwise the default for your operating system will be used.

In the event an error occurs while updating, a temporary file will be created on disk that contains your unapplied changes. The most common error when updating a resource is another editor changing the resource on the server. When this occurs, you will have to apply your changes to the newer version of the resource, or update your temporary saved copy to include the latest resource version.

example

Edit the service named 'docker-registry'

```
kubectl edit svc/docker-registry
```

Use an alternative editor

```
KUBE_EDITOR="nano" kubectl edit svc/docker-registry
```

Edit the job 'myjob' in JSON using the v1 API format

```
kubectl edit job.v1.batch/myjob -o json
```

Edit the deployment 'mydeployment' in YAML and save the modified config in its annotation

```
kubectl edit deployment/mydeployment -o yaml --save
```

NEW QUESTION # 73

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 set scale deployments my-app --replicas=1`
- C. `kubectl scale deployments my-app --replicas=1`
- D. `kubectl apply -f my-app-deployment.yaml --replicas=1`
- E. `kubectl edit deployment my-app --replicas=1`

Answer: B,C

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 # 74

What makes cloud native technology so important?

- A. It strengthens team
- B. It makes data centric
- C. It makes operational centric
- D. It removes roadblocks to innovation
- E. It helps gather software requirements

Answer: D

Explanation:

<https://github.com/cncf/foundation/blob/main/charter.md>

Cloud native technologies empower organizations to build and run scalable applications in modern, dynamic environments such as public, private, and hybrid clouds. Containers, service meshes, microservices, immutable infrastructure, and declarative APIs exemplify this approach.

These techniques enable loosely coupled systems that are resilient, manageable, and observable. Combined with robust automation, they allow engineers to make high-impact changes frequently and predictably with minimal toil.

NEW QUESTION # 75

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