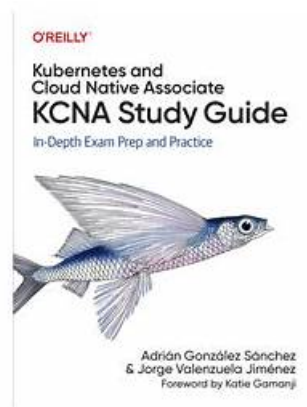


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Linux Foundation KCNA (Kubernetes and Cloud Native Associate) Certification Exam is a highly sought-after certification for individuals who wish to establish their expertise in cloud-native computing technologies. Kubernetes is an open-source platform that manages containerized applications, while cloud-native computing is an approach to building and running applications that takes full advantage of cloud computing models. Kubernetes and Cloud Native Associate certification exam is designed to validate the skills and knowledge of professionals who are seeking a career in cloud-native computing.

Linux Foundation Kubernetes and Cloud Native Associate Sample Questions (Q16-Q21):

NEW QUESTION # 16

Flux is built using which toolkit?

- A. GitOps
- B. DevSecOps
- C. CI/CD
- D. DevOps

Answer: A

Explanation:

<https://fluxcd.io/>

□

NEW QUESTION # 17

How many different Kubernetes service types can you define?

- A. 0
- B. 1
- C. 2
- D. 3

Answer: A

Explanation:

Kubernetes defines four primary Service types, which is why C (4) is correct. The commonly recognized Service spec.type values are:

ClusterIP: The default type. Exposes the Service on an internal virtual IP reachable only within the cluster. This supports typical east-west traffic between workloads.

NodePort: Exposes the Service on a static port on each node. Traffic to <NodeIP>:<NodePort> is forwarded to the Service endpoints. This is often used for simple external access in environments without load balancers, or as a building block for other systems.

LoadBalancer: Integrates with a cloud provider (or load balancer implementation) to provision an external load balancer and route traffic to the Service. This is common in managed Kubernetes.

ExternalName: Maps the Service name to an external DNS name via a CNAME record, allowing in-cluster clients to use a consistent Service DNS name to reach an external dependency.

Some people also talk about "Headless Services," but headless is not a separate type; it's a behavior achieved by setting clusterIP:

None. Headless Services still use the Service API object but change DNS and virtual-IP behavior to return endpoint IPs directly rather than a ClusterIP. That's why the canonical count of "Service types" is four.

This question tests understanding of the Service abstraction: Service type controls how a stable service identity is exposed (internal VIP, node port, external LB, or DNS alias), while selectors/endpoints control where traffic goes (the backend Pods). Different environments will favor different types: ClusterIP for internal microservices, LoadBalancer for external exposure in cloud, NodePort for bare-metal or simple access, ExternalName for bridging to outside services.

Therefore, the verified answer is C (4).

NEW QUESTION # 18

The Kubernetes API provides an interface for storing objects. Which of the following describes the type of objects stored by the Kubernetes API?

- A. Containers
- B. YAML
- C. REST
- D. ETCD

Answer: C

Explanation:

Kubernetes objects are RESTful objects.

NEW QUESTION # 19

Consider the following Kubernetes YAML file representing a deployment:

□

What is the primary benefit of using a GitOps approach to manage this deployment compared to traditional methods?

- A. GitOps provides faster deployment times by eliminating the need for manual interventions.
- B. GitOps simplifies the process of managing complex Kubernetes deployments by providing a centralized repository for configuration.
- C. GitOps enhances security by preventing unauthorized changes to the Kubernetes cluster.
- D. GitOps enables easy rollbacks to previous deployments by leveraging the versioning capabilities of Git.
- E. GitOps automates the deployment process, eliminating the need for human intervention.

Answer: D

Explanation:

GitOps leverages Git's version control system, providing a history of changes to your cluster's configuration. This enables easy rollbacks to previous deployments by simply reverting to a specific commit in the Git repository, making it easier to recover from errors or unwanted changes.

NEW QUESTION # 20

Which style of operations are preferred for kubernetes and cloud-native applications?

- A. None of the above
- B. Imperative
- **C. Declarative**

Answer: C

Explanation:

<https://kubernetes.io/docs/tasks/manage-kubernetes-objects/declarative-config/#trade-offs>

NEW QUESTION # 21

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