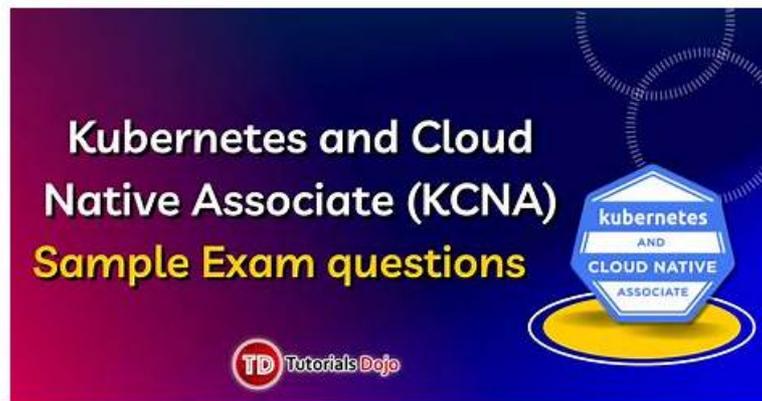


KCNA Exam Sample & KCNA Valid Test Cram



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The Linux Foundation KCNA certification will further demonstrate your expertise in your profession and remove any room for ambiguity on the hiring committee's part. Have you, however, consider how you might get ready for the Linux Foundation KCNA Exam Questions? Do you know how we can unlock the door so that our dreams might take flight? Let's talk about some information that can help you prepare for the Linux Foundation KCNA Certification Exam, and alter your route to success.

Linux Foundation KCNA Certification is a highly sought-after credential that validates the skills and knowledge of individuals in the field of Kubernetes and cloud-native technologies. Kubernetes and Cloud Native Associate certification is designed to assess the expertise of professionals in deploying, managing, and scaling containerized applications using Kubernetes and cloud-native technologies.

>> KCNA Exam Sample <<

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TestPassed KCNA Questions have helped thousands of candidates to achieve their professional dreams. Our Kubernetes and Cloud Native Associate (KCNA) exam dumps are useful for preparation and a complete source of knowledge. If you are a full-time job holder and facing problems finding time to prepare for the Kubernetes and Cloud Native Associate (KCNA) exam questions, you shouldn't worry more about it.

Linux Foundation KCNA (Kubernetes and Cloud Native Associate) Exam is a certification program developed by the Linux Foundation that is designed to test an individual's knowledge and skills in managing and deploying cloud-native applications and infrastructure using Kubernetes. Kubernetes and Cloud Native Associate certification is an entry-level program that is intended for IT professionals who are new to Kubernetes and cloud-native technologies.

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.

Linux Foundation Kubernetes and Cloud Native Associate Sample Questions (Q91-Q96):

NEW QUESTION # 91

You are building a web application that needs to serve traffic through a load balancer. Which Kubernetes resource should you use to expose the application service externally?

- A. Deployments
- B. StatefulSets

- C. Ingress
- D. Services
- E. ConfigMaps

Answer: C

Explanation:

Ingress is a Kubernetes resource used to define rules for how external traffic is routed to different services within your cluster. It allows you to configure load balancers, SSL termination, and other advanced routing features.

NEW QUESTION # 92

What are default kubernetes namespaces?

- A. kube-default, kube-public, kube-system, kube-node-lease
- B. default, kube-public, kube-system, kube-node-leases
- C. default, kube-public, kube-systems, kube-node-lease
- D. default, kube-public, kube-system, kube-node-lease

Answer: D

Explanation:

<https://kubernetes.io/docs/concepts/overview/working-with-objects/namespaces/>



 You can list the current namespaces in a cluster using:

```
kubectll get namespace
```

NAME	STATUS	AGE
default	Active	1d
kube-node-lease	Active	1d
kube-public	Active	1d
kube-system	Active	1d

Kubernetes starts with four initial namespaces:

- `default` The default namespace for objects with no other namespace
- `kube-system` The namespace for objects created by the Kubernetes system
- `kube-public` This namespace is created automatically and is readable by all users (including those not authenticated). This namespace is mostly reserved for cluster usage, in case that some resources should be visible and readable publicly throughout the whole cluster. The public aspect of this namespace is only a convention, not a requirement.
- `kube-node-lease` This namespace holds `Lease` objects associated with each node. Node leases allow the kubelet to send `heartbeats` so that the control plane can detect node failure.

NEW QUESTION # 93

Fluentd is the only way to export logs from Kubernetes cluster or applications running in cluster

- A. False
- B. True

Answer: A

Explanation:

<https://github.com/cncf/landscape#trail-map>

CLOUD NATIVE COMPUTING FOUNDATION

CLOUD NATIVE TRAIL MAP

The Cloud Native Landscape [cncf.io](https://github.com/cncf/landscape) has a large number of options. This Cloud Native Trail Map is a recommended process for leveraging open source, cloud native technologies. At each step, you can choose a vendor-supported offering or do it yourself, and everything after step #3 is optional based on your circumstances.

HELP ALONG THE WAY

A. Training and Certification

Consider training offerings from CNCF and then take the exam to become a Certified Kubernetes Administrator or a Certified Kubernetes Application Developer cncf.io/training

B. Consulting Help

If you want assistance with Kubernetes and the surrounding ecosystem, consider leveraging a Kubernetes Certified Service Provider cncf.io/kcsp

C. Join CNCF's End User Community

For companies that don't offer cloud native services externally cncf.io/enduser

WHAT IS CLOUD NATIVE?

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.

The Cloud Native Computing Foundation seeks to drive adoption of this paradigm by fostering and sustaining an ecosystem of open source, vendor-neutral projects. We democratize state-of-the-art patterns to make these innovations accessible for everyone.

1. CONTAINERIZATION

- Commonly done with Docker containers
- Any size application and dependencies (even PDP-11 code running on an emulator) can be containerized
- Over time, you should aspire towards splitting suitable applications and writing future functionality as microservices

2. CI/CD

- Setup Continuous Integration/Continuous Delivery (CI/CD) so that changes to your source code automatically result in a new container being built, tested, and deployed to staging and eventually, perhaps, to production
- Setup automated rollouts, roll backs and testing
- Argo is a set of Kubernetes-native tools for deploying and running jobs, applications, workflows, and events using GitOps paradigms such as continuous and progressive delivery and MLOps

3. ORCHESTRATION & APPLICATION DEFINITION

- Kubernetes is the market-leading orchestration solution
- You should select a Certified Kubernetes Distribution, Hosted Platform, or Installer cncf.io/ck
- Helm Charts help you define, install, and upgrade even the most complex Kubernetes application

4. OBSERVABILITY & ANALYSIS

- Pick solutions for monitoring, logging and tracing
- Consider CNCF projects Prometheus for monitoring, Fluentd for logging and Jaeger for Tracing
- For tracing, look for an OpenTracing-compatible implementation like Jaeger

5. SERVICE PROXY, DISCOVERY, & MESH

- CoreDNS is a fast and flexible tool that is useful for service discovery
- Envoy and Linkerd each enable service mesh architectures
- They offer health checking, routing, and load balancing

6. NETWORKING, POLICY, & SECURITY

To enable more flexible networking, use a CNI-compliant network project like Calico, Flannel, or Weave Net. Open Policy Agent (OPA) is a general purpose policy engine with uses ranging from authorization and admission control to data filtering. Falco is an anomaly detection engine for cloud native.

7. DISTRIBUTED DATABASE & STORAGE

When you need more resiliency and scalability than you can get from a single database, Vitess is a good option for running MySQL at scale through sharding. Rook is a storage orchestrator that integrates a diverse set of storage solutions into Kubernetes. Serving as the "brain" of Kubernetes, etcd provides a reliable way to store data across a cluster of machines. TiKV is a high performance distributed transactional key-value store written in Rust.

8. STREAMING & MESSAGING

When you need higher performance than JSON-Rest, consider using gRPC or NATS. gRPC is a universal RPC framework. NATS is a multi-modal messaging system that includes request/reply, pub/sub and load balanced queues. CloudEvents is a specification for describing event data in common ways.

9. CONTAINER REGISTRY & RUNTIME

Harbor is a registry that stores, signs, and scans content. You can use alternative container runtimes. The most common, both of which are OCI-compliant, are containerd and CRI-O.

10. SOFTWARE DISTRIBUTION

If you need to do secure software distribution, evaluate Notary, an implementation of The Update Framework.

Logos and Status:

- Graduated:** Kubernetes, Helm, Envoy, CoreDNS, Linkerd, Vitess, Rook, etcd, KV, Harbor, cri-o
- Incubating:** Prometheus, fluentd, OpenTracing, CNF, Open Policy Agent, Falco, gRPC, NATS, cloudevents, TUF, Notary
- Sandbox:** Argo

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NEW QUESTION # 94

Consider the following Pod Security Policy definition:

```
apiVersion: policy/v1beta1 kind: PodSecurityPolicy metadata: name: restricted-pod-security-policy spec: runAsUser: - "1000" - "1001" fsGroup: - "1000" - "1001" supplementalGroups: - "1000" - "1001" volumes: - "configMap" - "secret" hostNetwork: false hostPID: false hostIPC: false privileged: false selinux: rule: "RunAsUser" allowedCapabilities: - "SYS_ADMIN" - "CHOWN" allowPrivilegeEscalation: false
```

Which of the following statements is TRUE about this Pod Security Policy?

- A. The policy allows pods to access the host network.
- B. The policy allows pods to run as any user ID.
- C. The policy allows pods to run as specific user IDs, mount configMaps and secrets, and access specific capabilities.
- D. The policy allows pods to access host processes.
- E. The policy allows pods to mount hostPath volumes.

Answer: C

Explanation:

This Pod Security Policy restricts pods to run as specific user IDs (1000 and 1001), allows them to mount configMaps and secrets, and grants access to specific capabilities ('SYS_ADMIN' and 'CHOWN'). It does not allow access to the host network, host processes, or host PID namespace. This policy is designed to enforce security restrictions and prevent potential vulnerabilities within the Kubernetes cluster.

NEW QUESTION # 95

What is the most common way to scale the application in the cloud environment?

- A. Vertical Scaling
- B. Parallel Scaling
- C. Horizontal Scaling

Answer: C

Explanation:

<https://kubernetes.io/docs/tasks/run-application/horizontal-pod-autoscale/>

NEW QUESTION # 96

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