



Vendor: Linux Foundation

Exam Code: KCNA

Exam Name: Kubernetes and Cloud Native Associate

Version: DEMO

QUESTION 1

Which is the correct kubectl command to display logs in real time?

- A. `kubectl logs -p test-container-1`
- B. `kubectl logs -c test-container-1`
- C. `kubectl logs -l test-container-1`
- D. `kubectl logs -f test-container-1`

Answer: D

QUESTION 2

How to load and generate data required before the Pod startup?

- A. Use an init container with shared file storage.
- B. Use a PVC volume.
- C. Use a sidecar container with shared volume.
- D. Use another pod with a PVC.

Answer: A

QUESTION 3

What is the core functionality of GitOps tools like Argo CD and Flux?

- A. They track production changes made by a human in a Git repository and generate a human-readable audit trail.
- B. They replace human operations with an agent that tracks Git commands.
- C. They automatically create pull requests when dependencies are outdated.
- D. They continuously compare the desired state in Git with the actual production state and notify or act upon difference

Answer: D

QUESTION 4

Which Kubernetes resource workload ensures that all (or some) nodes run a copy of a Pod?

- A. ReplicaSet
- B. StatefulSet
- C. DaemonSet
- D. Deployment

Answer: C

QUESTION 5

What is a probe within Kubernetes?

- A. A monitoring mechanism of the Kubernetes API.
- B. A pre-operational scope issued by the kubectl agent.
- C. A diagnostic performed periodically by the kubelet on a container.
- D. A logging mechanism of the Kubernetes API.

Answer: C

QUESTION 6

Which Kubernetes feature would you use to guard against split brain scenarios with your distributed application?

- A. Replication controllers
- B. Consensus protocols
- C. Rolling updates
- D. StatefulSet

Answer: D

QUESTION 7

What feature must a CNI support to control specific traffic flows for workloads running in Kubernetes?

- A. Border Gateway Protocol
- B. Border Gateway Protocol
- C. Pod Security Policy
- D. Network Policies

Answer: D

QUESTION 8

What is the main role of the Kubernetes DNS within a cluster?

- A. Acts as a DNS server for virtual machines that are running outside the cluster.
- B. Provides a DNS as a Service, allowing users to create zones and registries for domains that they own.
- C. Allows Pods running in dual stack to convert IPv6 calls into IPv4 calls.
- D. Provides consistent DNS Names for Pods and Services for workloads that need to communicate with each other.

Answer: D

QUESTION 9

Scenario: You have a Kubernetes cluster hosted in a public cloud provider. When trying to create a Service of type LoadBalancer, the external-ip is stuck in the "Pending" state. Which Kubernetes component is failing in this scenario?

- A. Cloud Controller Manager
- B. Load Balancer Manager
- C. Load Balancer Manager
- D. Cloud Load Balancer Manager

Answer: A

QUESTION 10

What are the characteristics for building every cloud-native application?

- A. Resiliency, Operability, Observability, Availability
- B. Resiliency, Containerd, Observability, Agility
- C. Kubernetes, Operability, Observability, Availability
- D. Resiliency, Agility, Operability, Observability

Answer: D

QUESTION 11

What does CNCF stand for?

- A. Cloud Native Community Foundation
- B. Cloud Native Computing Foundation
- C. Cloud Neutral Computing Foundation
- D. Cloud Neutral Community Foundation

Answer: B

QUESTION 12

Kubernetes supports multiple virtual clusters backed by the same physical cluster. These virtual clusters are called:

- A. namespaces
- B. containers
- C. hypervisors
- D. cgroups

Answer: A

QUESTION 13

What component enables end users, different parts of the Kubernetes cluster, and external components to communicate with one another?

- A. kubectl
- B. AWS Management Console
- C. Kubernetes API
- D. Google Cloud SDK

Answer: C

QUESTION 14

Which command will list the resource types that exist within a cluster?

- A. `kubectl api-resources`
- B. `kubectl get namespaces`
- C. `kubectl api-versions`

D. `curl https://kubectrl/namespaces`

Answer: A

QUESTION 15

Which of these components is part of the Kubernetes Control Plane?

- A. coredns
- B. cloud-controller-manager
- C. kube-proxy
- D. kubelet

Answer: B

QUESTION 16

Which of the following systems is NOT compatible with the CRI runtime interface standard?

- A. CRI-O
- B. dockershim
- C. systemd
- D. containerd

Answer: C

QUESTION 17

What is a key feature of a container network?

- A. Proxying REST requests across a set of containers.
- B. Allowing containers running on separate hosts to communicate.
- C. Allowing containers on the same host to communicate.
- D. Caching remote disk access.

Answer: B

QUESTION 18

How can you monitor the progress for an updated Deployment/DaemonSets/StatefulSets?

- A. `kubectl rollout watch`
- B. `kubectl rollout progress`
- C. `kubectl rollout state`
- D. `kubectl rollout status`

Answer: D

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