# KCNA<sup>Q&As</sup>

Kubernetes and Cloud Native Associate (KCNA)

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#### **QUESTION 1**

What does CNCF stand for?

A. Cloud Native Computing Foundation

B. Cloud Native Cloud Foundation

C. Cloud Native Container Foundation

Correct Answer: A

Explanation: https://www.cncf.io/about/who-we-are/

The Cloud Native Computing Foundation (CNCF) hosts critical components of the global technology infrastructure. CNCF brings together the world's top developers, end users, and vendors and runs the largest open source developer conferences. CNCF is part of the nonprofit Linux Foundation.

#### **QUESTION 2**

What is a commonly used package manager for kubernetes applications?

A. npm

B. apt

C. helm

D. kubernetes manifest

Correct Answer: C

Explanation: https://helm.sh/

### **QUESTION 3**

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

A. True

B. False

Correct Answer: B



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

## https://www.pass4itsure.com/kcna.html

# CLOUD NATIVE COMPUTING FOUNDATION

# CLOUD NATIVE TRAIL MAP

The Cloud Native Landscape Lenction 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 ofrcumstances.

#### 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 and fortraining

#### B. Consulting Help

If you want assistance with Kubernetes and the surrounding ecosystem, consider leveraging a Kubernetes Certified Service Provider

cnaf.io/kasp

#### C. Join CNCF's End User Community

For companies that don't offer cloud native services externally cocf.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, immulable infrastructure, and declarative APIs exemplify this approach.

These techniques enable loosely coupled systems that are resilied, 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.

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## **QUESTION 4**

What are default kubernetes namespaces?

A. default, kube-public, kube-system, kube-node-lease

B. kube-default, kube-public, kube-system, kube-node-lease

C. default, kube-public, kube-systems, kube-node-lease

D. default, kube-public, kube-system, kube-node-leases

Correct Answer: A

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



You can list the current namespaces in a cluster using:

kubectl 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.

### **QUESTION 5**

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

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

Correct Answer: C



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

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