

KCNA^{Q&As}

Kubernetes and Cloud Native Associate (KCNA)

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QUESTION 1

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

QUESTION 2

Which of the following best describes a cloud-native app?

- A. An application where all logic is coded into a single large binary.
- B. An application that publishes an HTTPS web front-end.
- C. An application that takes advantages of cloud computing fromworks and their loosely coupled cloud services.
- D. An application that leverages services that are native to public cloud platforms such as Azure, GCP, and/or AWS.

Correct Answer: C

Explanation: Cloud-native apps leverage cloud computing frameworks and tend to be microservices based, where individual components of the app are coded as individual.

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

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CLOUD NATIVE 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 ofroumstances.

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 fulfilling

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 sceks to drive adoption of this paradigm by fostering and sustaining an ecosystem of open source, vendorneutral projects. We democratize state-of-the-art patterns to make these innovations accessible for everyone.

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QUESTION 4

What command can you use to get documentation about a resource type from the command line?

- A. kubectl api-resources
- B. kubectl explain
- C. kubectl get
- D. kubeadm get-resource

Correct Answer: B

Explanation: https://kubernetes.io/docs/reference/generated/kubectl/kubectl- commands#explain

explain

Get the documentation of the resource and its fields

kubectl explain pods

Get the documentation of a specific field of a resource

kubectl explain pods.spec.containers

List the fields for supported resources.

This command describes the fields associated with each supported API resource. Fields are identified via a simple JSONPath identifier:

<type>.<fieldName>[.<fieldName>]

Add the --recursive flag to display all of the fields at once without descriptions. Information about each field is retrieved from the server in OpenAPI format.

Use "kubectl api-resources" for a complete list of supported resources.

Usage

\$ kubectl explain RESOURCE

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QUESTION 5

What does the \\'kops\\' acronym means?

- A. Kubernetes Open Platform Specification
- B. Kubernetes Operations
- C. Kubernetes Operators
- D. Kubernetes Operation Policy Specification

Correct Answer: B

Explanation: https://github.com/kubernetes/kops

kOps - Kubernetes Operations



The easiest way to get a production grade Kubernetes cluster up and running.

What is kOps?

We like to think of it as kubectl for clusters.

kops will not only help you create, destroy, upgrade and maintain production-grade, highly available, Kubernetes cluster, but it will also provision the necessary cloud infrastructure.

AWS (Amazon Web Services) is currently officially supported, with DigitalOcean, GCE, and OpenStack in beta support, and Azure and AliCloud in alpha.

Graphical user interface, text, application, email

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