KCNA Q&As

Kubernetes and Cloud Native Associate (KCNA)

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QUESTION 1

What does CNCF stand for?

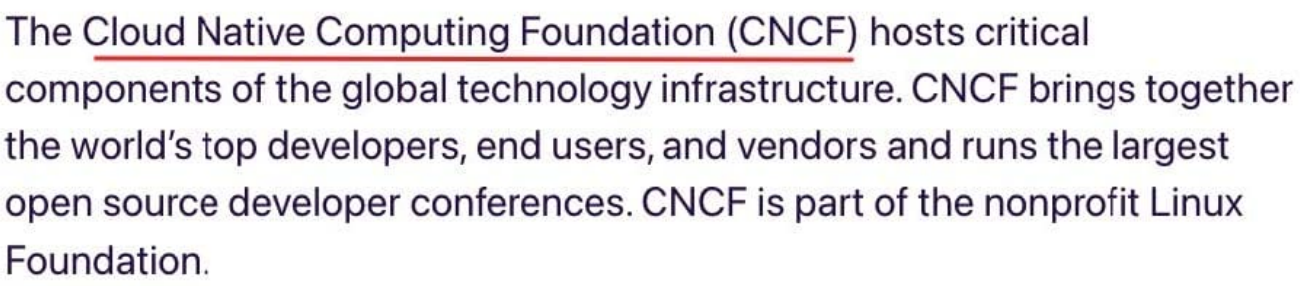
A. Cloud Native Computing Foundation

B. Cloud Native Cloud Foundation

C. Cloud Native Container Foundation

Correct Answer: A

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



QUESTION 2

What is the command used to scale the application?

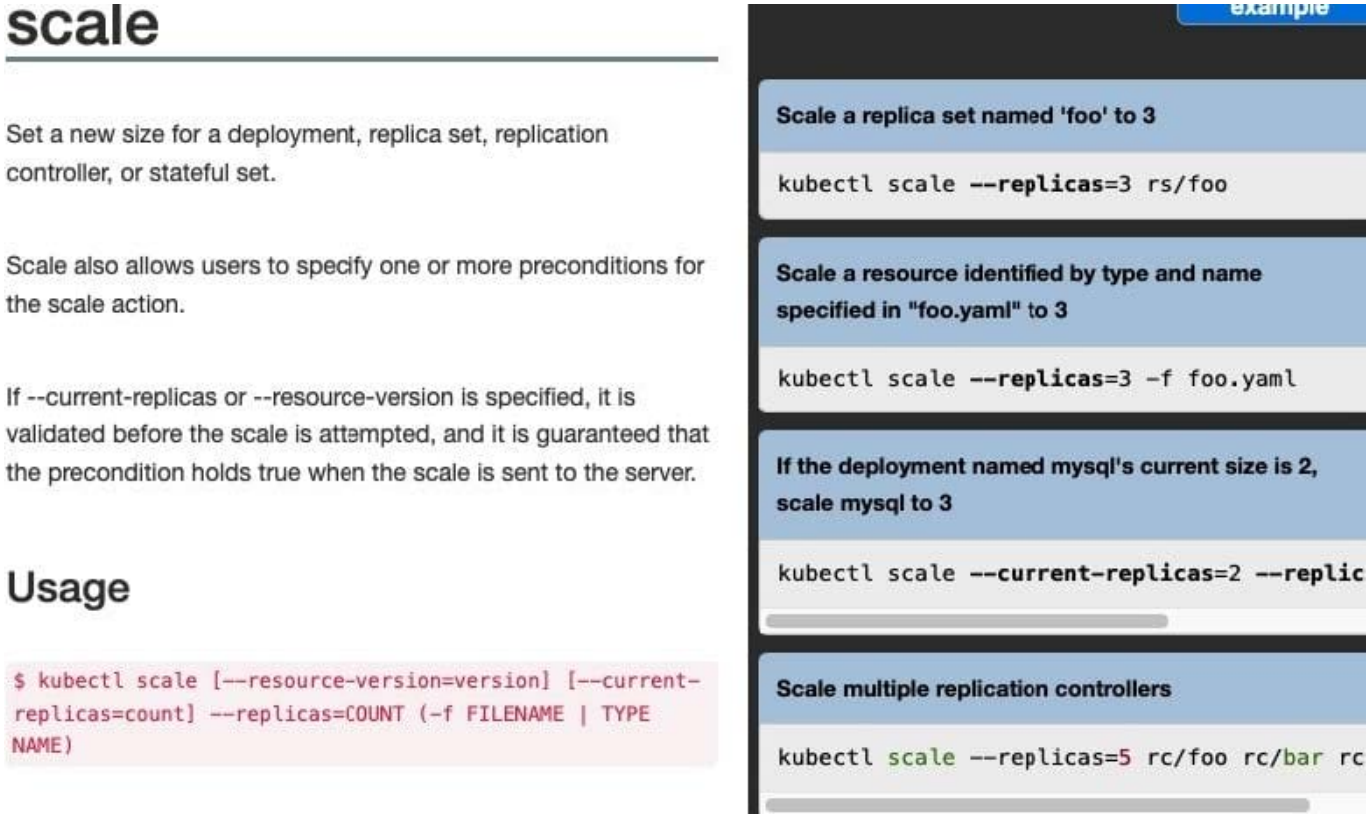
A. kubectl run

B. kubectl explain

C. kubectl scale

Correct Answer: C

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



scale

Set a new size for a deployment, replica set, replication controller, or stateful set.

Scale also allows users to specify one or more preconditions for the scale action.

If --current-replicas or --resource-version is specified, it is validated before the scale is attempted, and it is guaranteed that the precondition holds true when the scale is sent to the server.

Usage

```
$ kubectl scale [--resource-version=version] [--current-replicas=count] --replicas=COUNT (-f FILENAME | TYPE NAME)
```

example

Scale a replica set named 'foo' to 3

```
kubectl scale --replicas=3 rs/foo
```

Scale a resource identified by type and name specified in "foo.yaml" to 3

```
kubectl scale --replicas=3 -f foo.yaml
```

If the deployment named mysql's current size is 2, scale mysql to 3

```
kubectl scale --current-replicas=2 --replic
```

Scale multiple replication controllers

```
kubectl scale --replicas=5 rc/foo rc/bar rc
```

QUESTION 3

What is autoscaling?

A. Automatically measuring resource usage

B. Automatically assigning workloads to nodes in a cluster

C. Automatically repairing broken application instances

D. Automatically adding or removing compute resources as needed

Correct Answer: D

https://kubernetes.io/blog/2016/07/autoscaling-in-kubernetes/ Autoscaling means automatically scaling up or down in response to real-time usage data.

QUESTION 4

Which of the following is an advantage a cloud-native microservices application has over monolithic applications?

A. Cloud-native microservices applications tend to be faster and more responsive than monolithic applications.

B. Cloud-native microservice applications tend to be easier to troubleshoot.

C. Cloud-native microservice applications tend to be easier to scale and perform updates on.

Correct Answer: C

Explanation: Cloud-native applications tend to be microservice base, they have individual services that can be independently scaled, updated and rolled back. This makes scaling and update operations simpler and less risky.

QUESTION 5

What is the functionality of the daemon set?

A. To run a copy of the pod in all the nodes of the cluster

B. To initialize the pod before starting the main pod

C. To run a copy of the pod in a single node of the cluster

Correct Answer: A

Explanation: https://kubernetes.io/docs/concepts/workloads/controllers/daemonset/