KCNA^{Q&As}

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QUESTION 1

What is horizontal scaling?

A. Creating a Deployment

B. Adding resources to existing apps and servers

C. Moving workloads from one server to another

D. Adding additional replicas of apps and servers

Correct Answer: D

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

In Kubernetes, a *HorizontalPodAutoscaler* automatically updates a workload resource (such as a Deployment or StatefulSet), with the aim of automatically scaling the workload to match demand.

Horizontal scaling means that the response to increased load is to deploy more Pods. This is different from *vertical* scaling, which for Kubernetes would mean assigning more resources (for example: memory or CPU) to the Pods that are already running for the workload.

If the load decreases, and the number of Pods is above the configured minimum, the HorizontalPodAutoscaler instructs the workload resource (the Deployment, StatefulSet, or other similar resource) to scale back down.

Horizontal pod autoscaling does not apply to objects that can't be scaled (for example: a DaemonSet.)

The HorizontalPodAutoscaler is implemented as a Kubernetes API resource and a controller. The resource determines the behavior of the controller. The horizontal pod autoscaling controller, running within the Kubernetes control plane, periodically adjusts the desired scale of its target (for example, a Deployment) to match observed metrics such as average CPU utilization, average memory utilization, or any other custom metric you specify.

QUESTION 2

Stateful set requires which service for the network identity of pods?

A. Ingress

B. Load Balancer Service

C. Headless Service

Correct Answer: C

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

Using StatefulSets 🔗

StatefulSets are valuable for applications that require one or more of the following.

- Stable, unique network identifiers.
- Stable, persistent storage.
- Ordered, graceful deployment and scaling.
- Ordered, automated rolling updates.

QUESTION 3

Which of the following is not the required field to describe Kubernetes objects?

A. metadata

B. apiVersion

C. Kind

D. Container

E. spec

Correct Answer: D

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

Required Fields 🔗

In the `.yaml` file for the Kubernetes object you want to create, you'll need to set values for the following fields:

- `apiVersion` - Which version of the Kubernetes API you're using to create this object
- `kind` - What kind of object you want to create
- `metadata` - Data that helps uniquely identify the object, including a `name` string, `UID`, and optional `namespace`
- `spec` - What state you desire for the object

The precise format of the object `spec` is different for every Kubernetes object, and contains nested fields specific to that object. The Kubernetes API Reference can help you find the spec format for all of the objects you can create using Kubernetes.

QUESTION 4

What is the main difference between Argo vs. Flux CD?

A. Argo is pull-based, and Flux is push-based

B. No difference; both are pull-based

C. Argo is push-based, and Flux is pull-based

D. No difference; both are push-based

Correct Answer: C

Explanation: AgroCD: https://argo-cd.readthedocs.io/en/stable/developer-guide/ci/#can-i- retrigger-thechecks-without-pushing-a-new-commit FluxCD: https://fluxcd.io/

QUESTION 5

What is not semantic versioning?

A. 1.0.0

B. 2022-05-04

C. 1.0.0-alpha

D. 1.0.0-beta.2

Correct Answer: B

Explanation: https://semver.org/RegEx SemVer at https://regex101.com/r/vkijKf/1/

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