KCNA^{Q&As}

Kubernetes and Cloud Native Associate (KCNA)

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QUESTION 1

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 2

A new Pod is created. Then, the Pod is assigned to a Node. Which Kubernetes component was responsible for determining which Node to assign the Pod to?

- A. kubelet
- B. Scheduler
- C. API Server
- D. Controller manager

Correct Answer: B

Explanation: https://kubernetes.io/docs/reference/command-line-tools-reference/kube- scheduler/

The Kubernetes scheduler is a control plane process which assigns Pods to Nodes. The scheduler determines which Nodes are valid placements for each Pod in the scheduling queue according to constraints and available resources. The scheduler then ranks each valid Node and binds the Pod to a suitable Node. Multiple different schedulers may be used within a cluster; kube-scheduler is the reference implementation. See scheduling for more information about scheduling and the kube-scheduler component.

kube-scheduler [flags]



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 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	
Continuous delivery is	
A. Manually deploying the code	
B. Coding, Building and Testing the code	
C. Automatically deploying code to [container or server] environment	
Correct Answer: C	

QUESTION 5

Which of the following is an example of vertical scaling?

- A. Using cluster autoscaler
- B. Adding more resources (memory and/or cpu) to a kubernetes node
- C. Adding more nodes to kubernetes cluster
- D. Adding more replica pods to a deployment

Correct Answer: B

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

Horizontal scaling means that the response to increased load is to deploy more <u>Pods</u>. 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.

QUESTION 6

Notary and the update framework leading security projects in CNCF

A. TRUE

B. FALSE

Correct Answer: A

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

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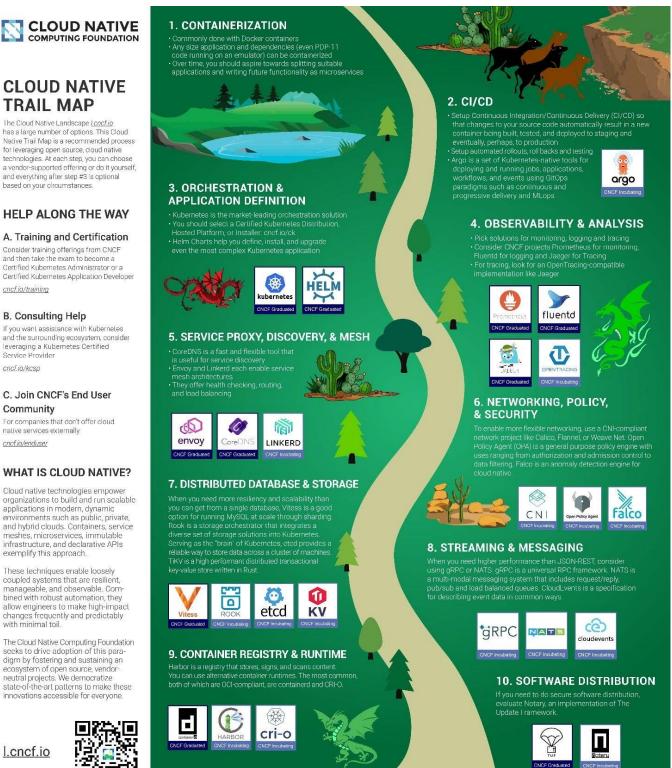
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QUESTION 7

Which organizational persona creates Service Level Agreements \\'SLA\\', Service Level Objectives \\'SLO\\', and Service Level Indicator \\'SLI\\'?



- A. Developer
- B. DevSecOps
- C. Site Reliability Engineer (SRE)
- D. Security and Compliance Engineer
- E. DevOps

Correct Answer: C

Explanation: SREs create SLAs, SLOs, and SLIs to define and implement standards for application and infra-structure reliability.

QUESTION 8

What kubectl command is used to edit a resource on the server?

- A. kubectl resource modify
- B. kubectl update resource
- C. kubectl edit
- D. kubectl resource edit

Correct Answer: C

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

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edit

Edit a resource from the default editor.

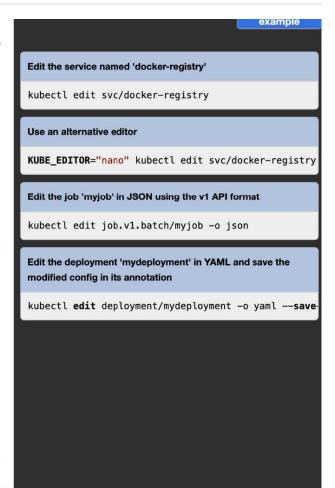
The edit command allows you to directly edit any API resource you can retrieve via the command-line tools. It will open the editor defined by your KUBE_EDITOR, or EDITOR environment variables, or fall back to 'vi' for Linux or 'notepad' for Windows. You can edit multiple objects, although changes are applied one at a time. The command accepts file names as well as command-line arguments, although the files you point to must be previously saved versions of resources.

Editing is done with the API version used to fetch the resource. To edit using a specific API version, fully-qualify the resource, version, and group.

The default format is YAML. To edit in JSON, specify "-o json".

The flag --windows-line-endings can be used to force Windows line endings, otherwise the default for your operating system will be used.

In the event an error occurs while updating, a temporary file will be created on disk that contains your unapplied changes. The most common error when updating a resource is another editor changing the resource on the server. When this occurs, you will have to apply your changes to the newer version of the resource, or update your temporary saved copy to include the latest resource version.



QUESTION 9

Which project in this list is a leading project in the observability space?

- A. Jaeger
- B. Vitess
- C. Argo
- D. Kubernetes

Correct Answer: A

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

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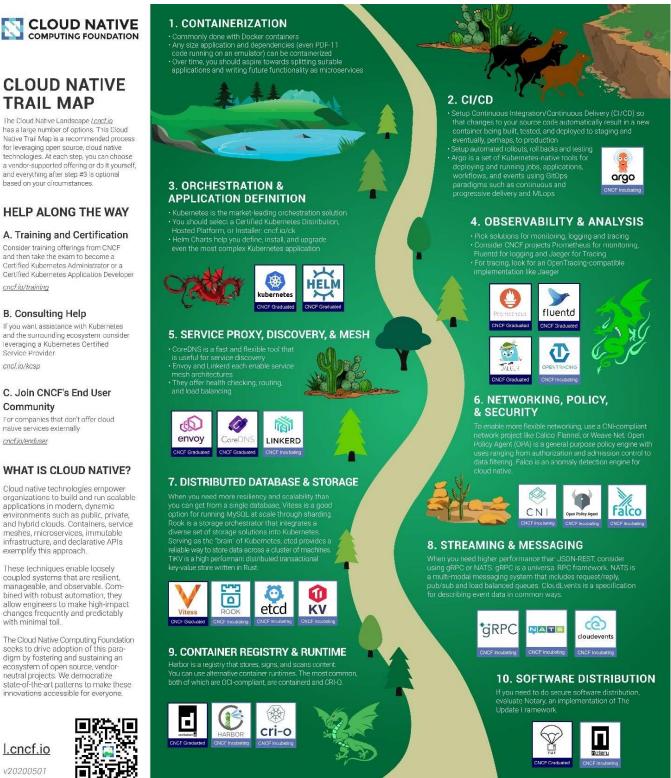
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QUESTION 10

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 11
What are the two goals of Cloud-Native?
A. Rapid innovation and automation
B. Slow innovation and stable applications
C. Frequent deployments and well-defined organizational silos
D. Rapid innovation and reliability
Correct Answer: D
Correct Answer: D Explanation: https://www.redhat.com/en/topics/cloud-native-apps
Correct Answer: D
Correct Answer: D Explanation: https://www.redhat.com/en/topics/cloud-native-apps QUESTION 12
Correct Answer: D Explanation: https://www.redhat.com/en/topics/cloud-native-apps QUESTION 12 Which of the following is not the required field to describe Kubernetes objects?
Correct Answer: D Explanation: https://www.redhat.com/en/topics/cloud-native-apps QUESTION 12 Which of the following is not the required field to describe Kubernetes objects? A. metadata
Correct Answer: D Explanation: https://www.redhat.com/en/topics/cloud-native-apps QUESTION 12 Which of the following is not the required field to describe Kubernetes objects? A. metadata B. apiVersion
Correct Answer: D Explanation: https://www.redhat.com/en/topics/cloud-native-apps QUESTION 12 Which of the following is not the required field to describe Kubernetes objects? A. metadata B. apiVersion C. Kind
Correct Answer: D Explanation: https://www.redhat.com/en/topics/cloud-native-apps QUESTION 12 Which of the following is not the required field to describe Kubernetes objects? A. metadata B. apiVersion C. Kind D. Container

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 13

Which of the following components is part of the Kubernetes control panel

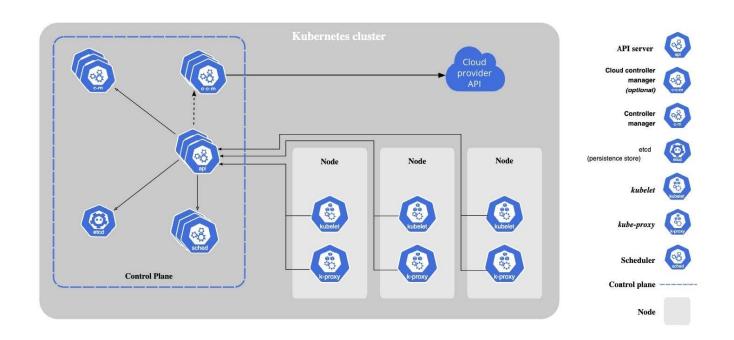
- A. kubectl
- B. kube-proxy
- C. Service Mesh
- D. kubelet
- E. Cloud control manager

Correct Answer: E

Explanation: https://kubernetes.io/docs/concepts/overview/components/

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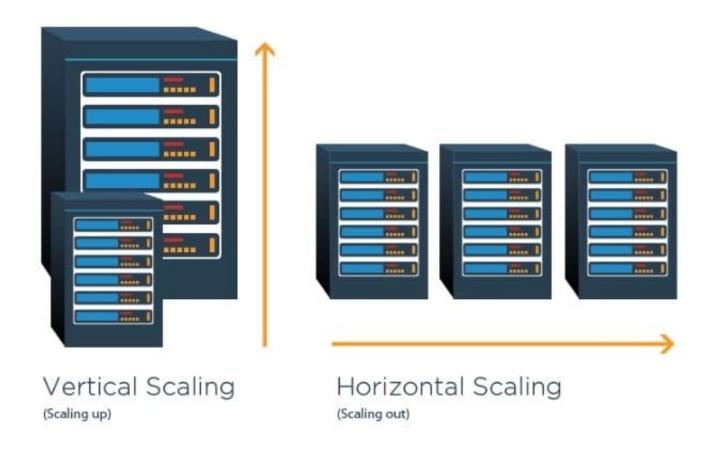
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QUESTION 14

An application that is nearing its usage limit. To increase the amount of users it can handle, you allo-cate additional memory resources to each instance of the application. What type of scaling is this?

- A. Horizontal Scaling
- B. Cluster Autoscaling
- C. Recursive Scaling
- D. Vertical Scaling
- Correct Answer: D



QUESTION 15

How can persistent volume be provisioned?

- A. Automatically
- B. Bootstrap
- C. Dynamically

Correct Answer: C

Explanation: https://kubernetes.io/docs/concepts/storage/persistent-volumes/

A PersistentVolume (PV) is a piece of storage in the cluster that has been provisioned by an administrator or dynamically provisioned using Storage Classes. It is a resource in the cluster just like a node is a cluster resource. PVs are volume plugins like Volumes, but have a lifecycle independent of any individual Pod that uses the PV. This API object captures the details of the implementation of the storage, be that NFS, iSCSI, or a cloud-provider-specific storage system.

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