Linux Foundation

Exam Questions KCNA

Kubernetes and Cloud Native Associate (KCNA)

NEW QUESTION 1
What does CNCF stand for?

A. Cloud Native Computing Foundation
B. Cloud Native Cloud Foundation
C. Cloud Native Container Foundation

Answer: A

Explanation:
https://www.cncf.io/about/who-we-are/
Graphical user interface, text, application Description automatically generated

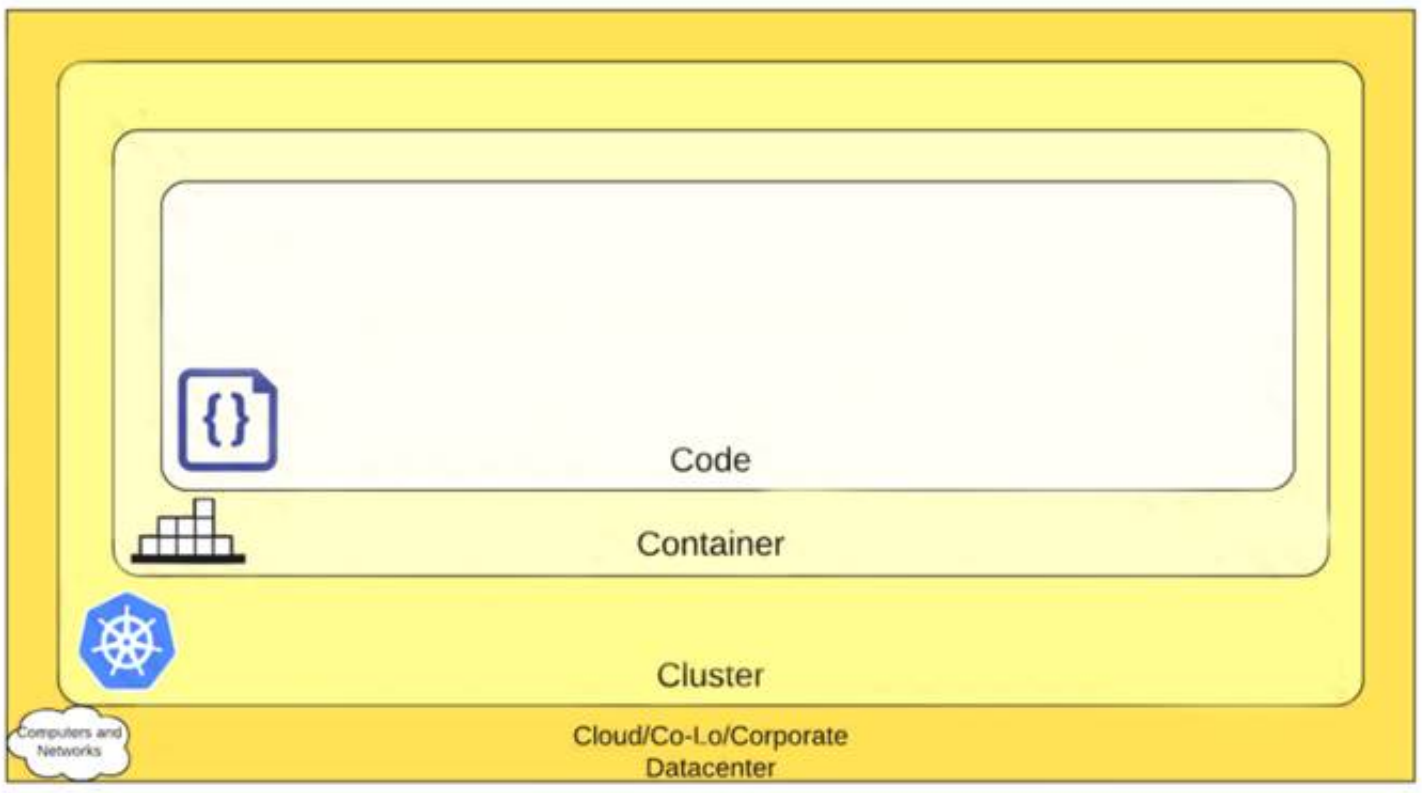
The Cloud Native Computing Foundation (CNCF) hosts critical components of the global technology infrastructure. CNCF brings together the world's top developers, end users, and vendors and runs the largest open source developer conferences. CNCF is part of the nonprofit Linux Foundation.

NEW QUESTION 2
There are three Nodes in a cluster, and want to run exactly one replica of a Pod on each Node. Pre-fer to automatically create a replica on any new Nodes when they are added. Which Kubernetes re-source should you use?

A. DaemonSet
B. ReplicaSet
C. NodeSet
D. StatefulSet
E. Deployment

Answer: A

Explanation:
https://kubernetes.io/docs/concepts/workloads/controllers/daemonset/
A DaemonSet runs replicas on all (or just some) Nodes in the cluster.
Table Description automatically generated with medium confidence

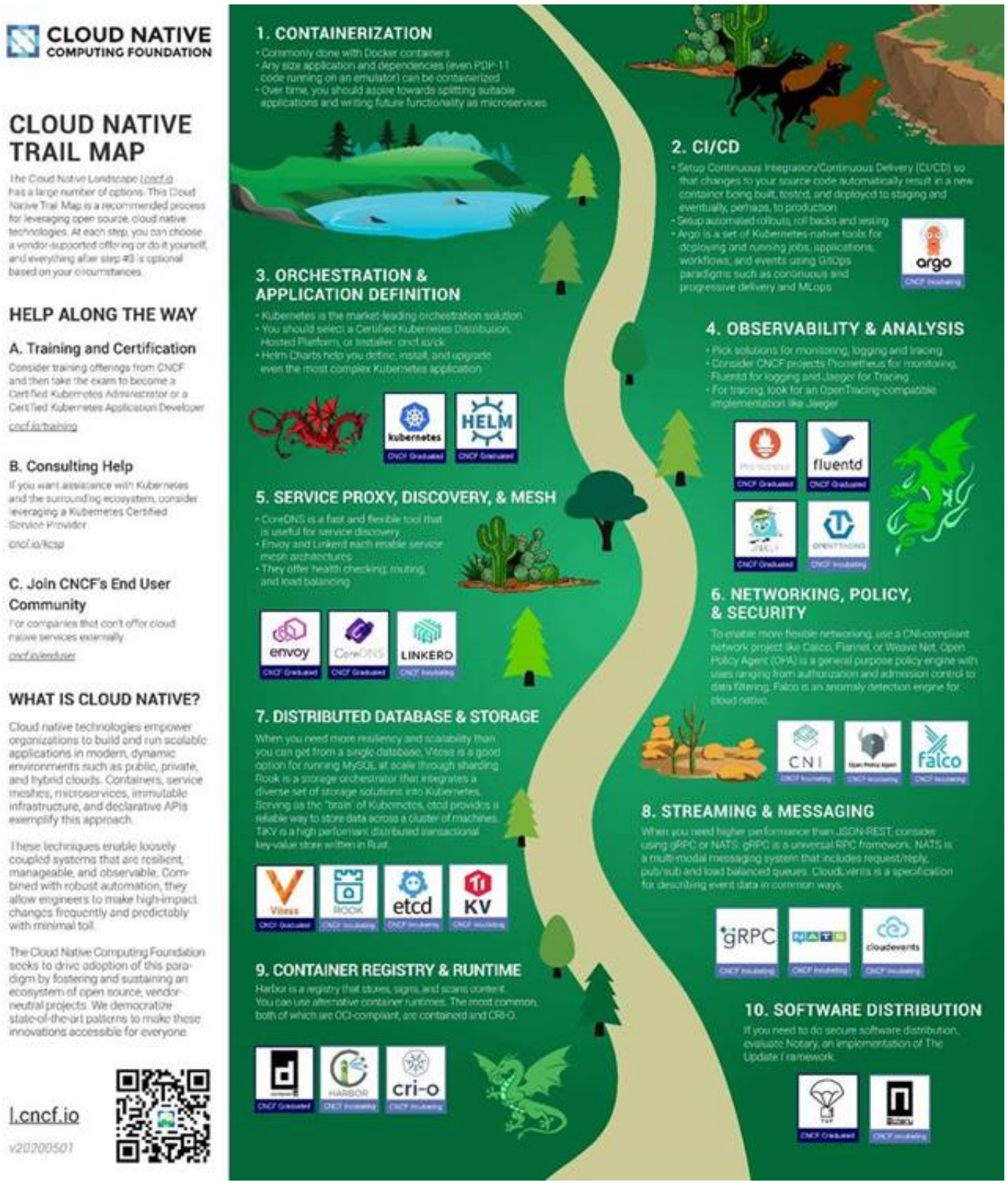


NEW QUESTION 3
Which project in this list is a leading project in the observability space?

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

Answer: A

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



NEW QUESTION 4
Fluentd is the only way to export logs from Kubernetes cluster or applications running in cluster

A. True
B. False

Answer: B

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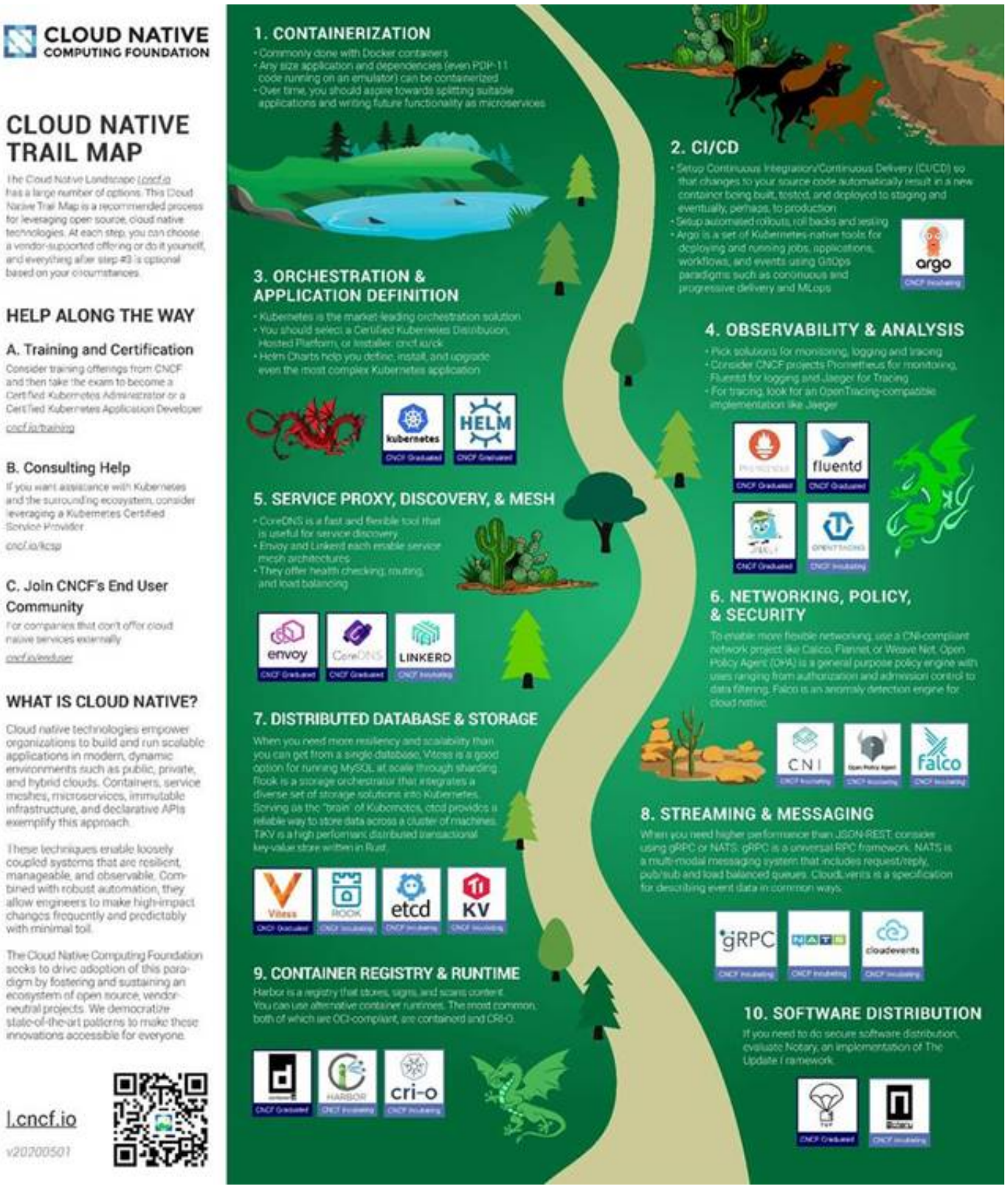


NEW QUESTION 5
Which style of operations are preferred for kubernetes and cloud-native applications?

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

Answer: C

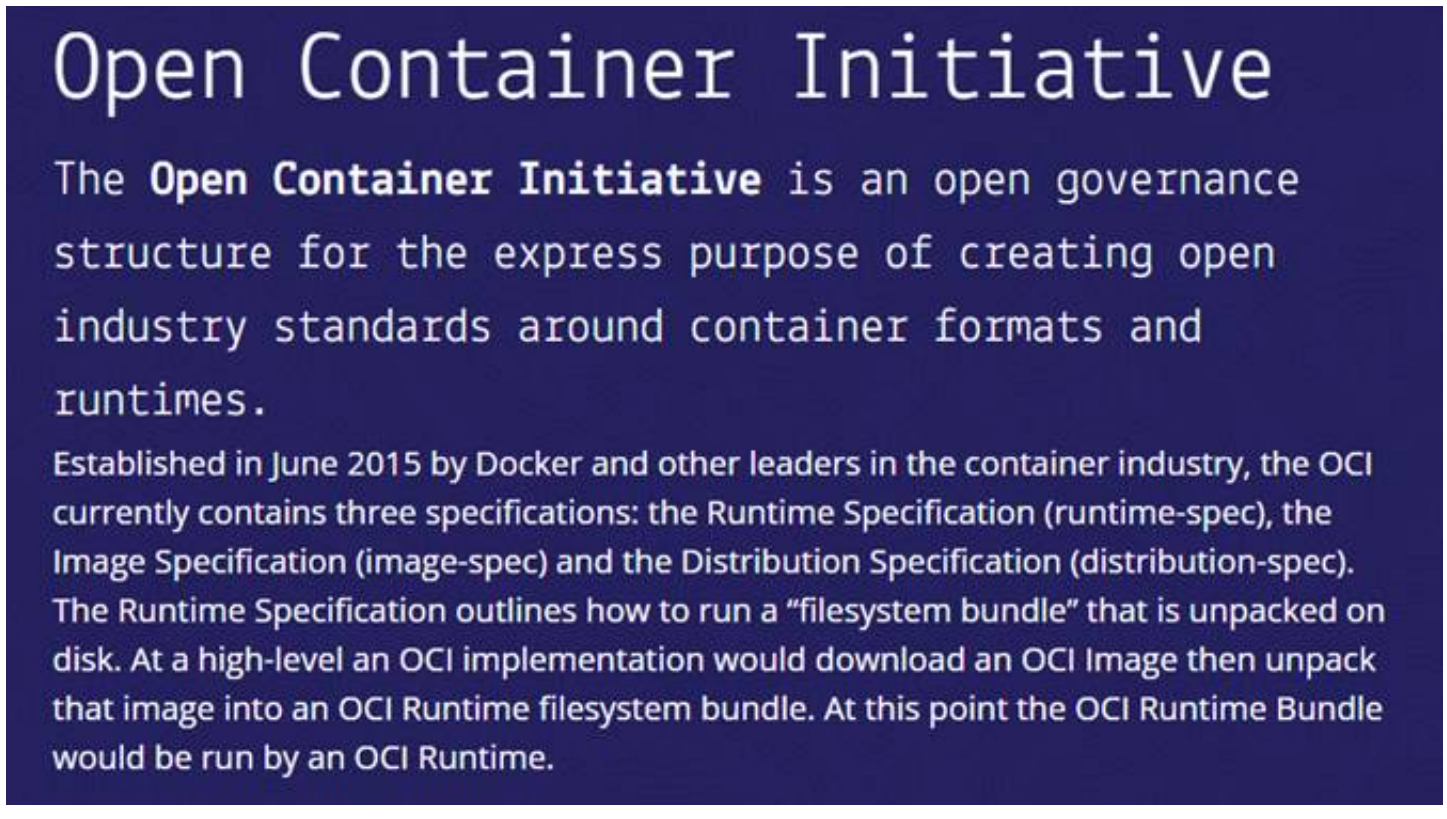
Explanation:
https://kubernetes.io/docs/tasks/manage-kubernetes-objects/declarative-config/#trade-offs

NEW QUESTION 6
What is Open Container Initiative 'OCI'?

A. A protocol for communicating with the kubernetes api
B. The governing body of the Cloud Native Computing Foundation 'CNCF'
C. An open standard for managing service mesh in kubernetes
D. An organization that creates open standards for containers

Answer: D

Explanation:
https://opencontainers.org/
Text Description automatically generated

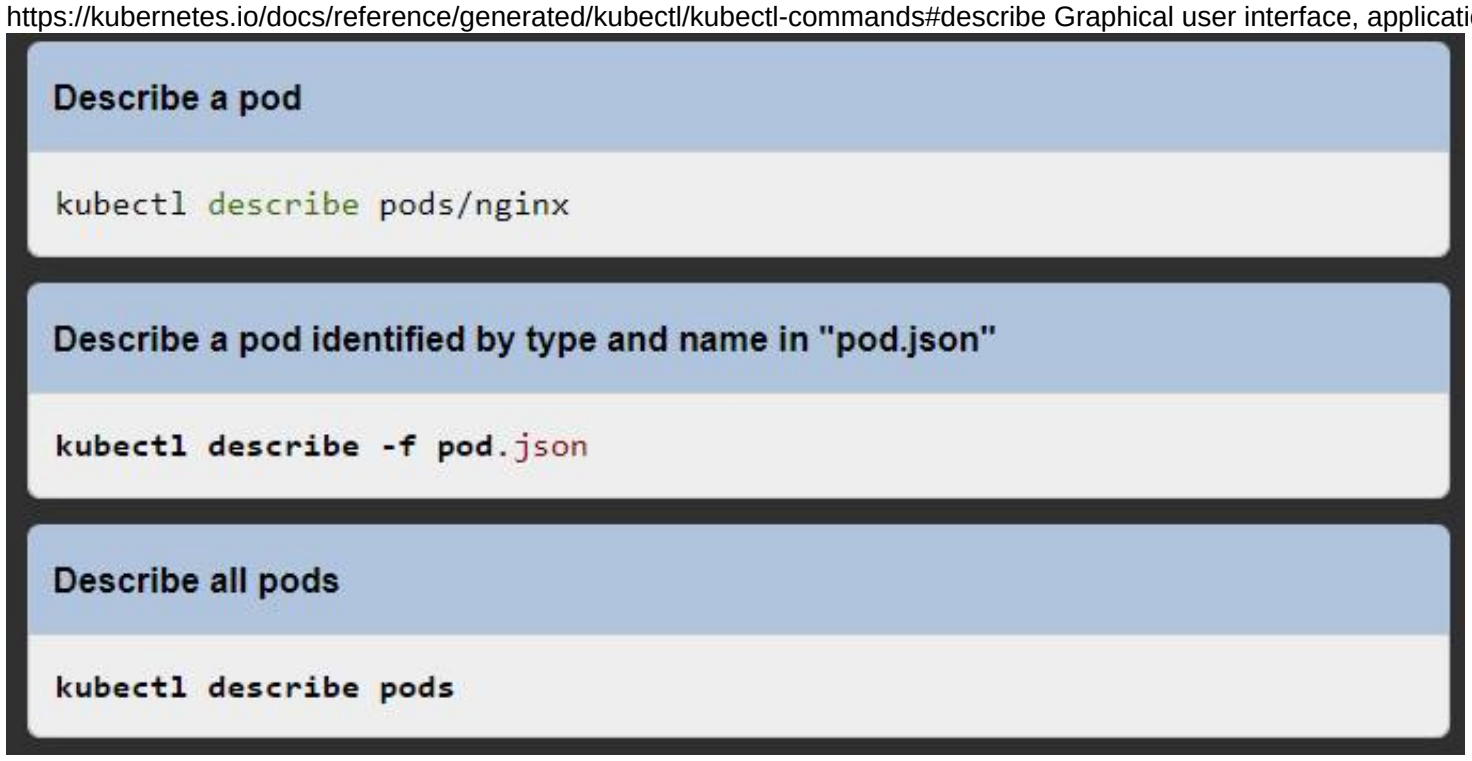


NEW QUESTION 7
Which of the following command is used to get detailed information about the pod?

A. kubectl info
B. kubectl get
C. kubectl describe
D. kubectl explain

Answer: C

Explanation:
https://kubernetes.io/docs/reference/generated/kubectl/kubectl-commands#describe Graphical user interface, application Description automatically generated

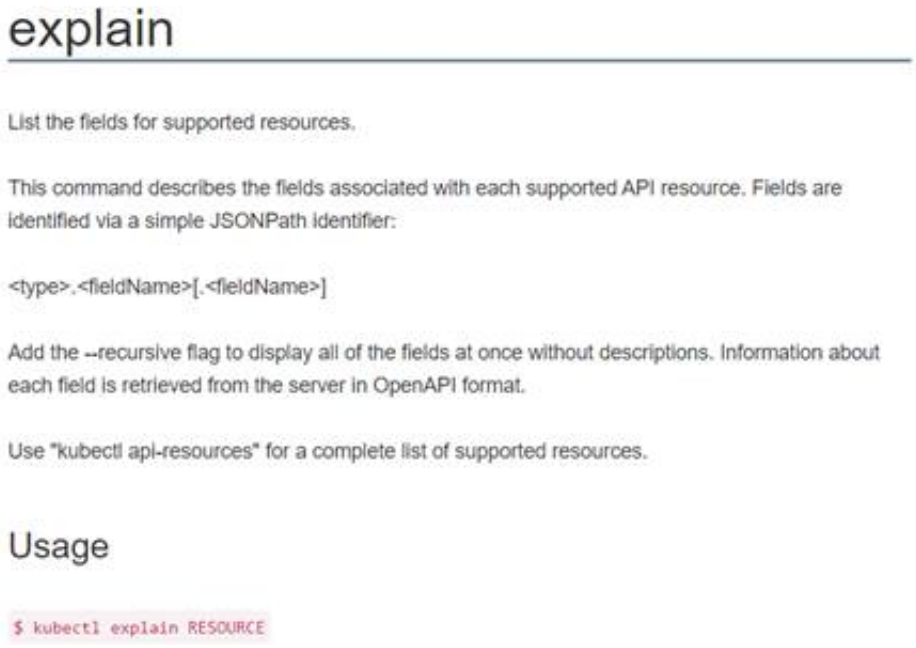


NEW QUESTION 8
What command can you use to get documentation about a resource type from the command line?

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

Answer: B

Explanation:
https://kubernetes.io/docs/reference/generated/kubectl/kubectl-commands#explain Graphical user interface, text, application, email Description automatically generated



NEW QUESTION 9
What Linux feature is used to provide isolation for containers?

A. Processes
B. Services
C. NetworkPolicy
D. Control groups

Answer: D

Explanation:
Control groups provide isolation for container processes, keeping them separate from other process-es on the host.

NEW QUESTION 10
How should folks new to the cloud native ecosystem, go about learning the different aspects of the ecosystem?

A. by signing up the CNCF slack
B. by reading the Kubernetes documentation
C. by looking at the cloud native landscape
D. by looking at the cloud native trail-map

Answer: D

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

NEW QUESTION 11
Which of the following factors does scheduling take into account when selecting a Node?

A. How many replicas there are in a Deployment
B. Services
C. Resource requirements
D. The number of existing Pods on a Node

Answer: C

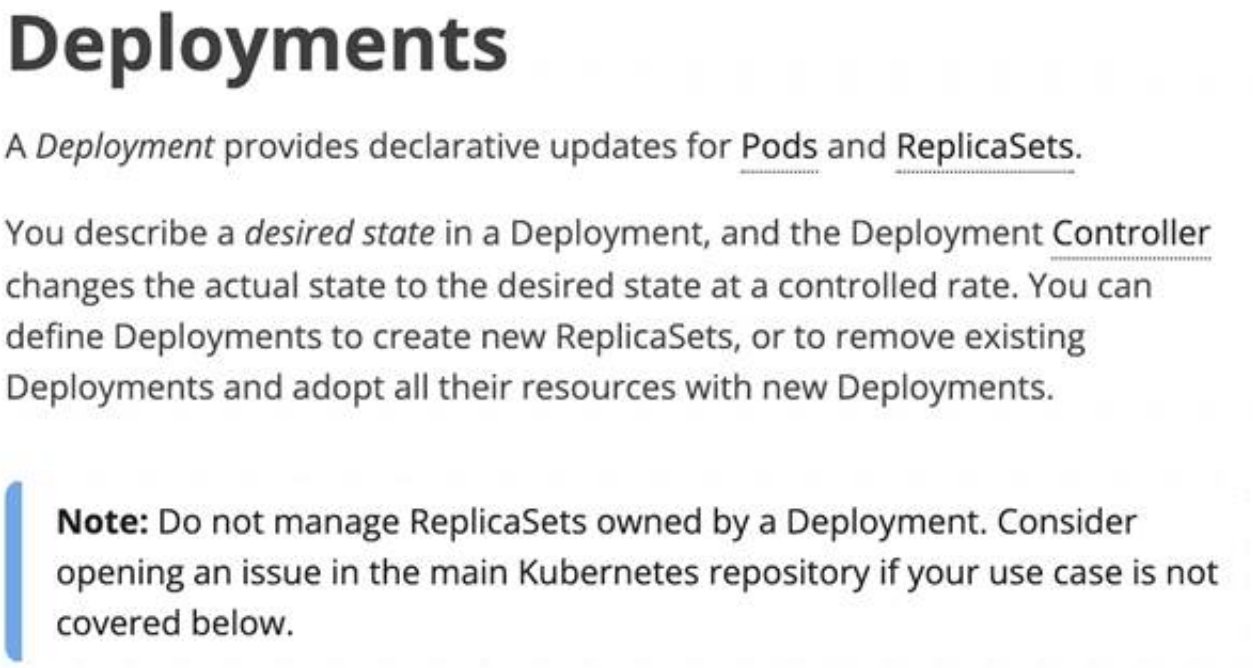
Explanation:
Scheduling takes resource requirements into account in the form of resource requests.

NEW QUESTION 12
You might need to run a stateless application in kubernetes, and you want to be able to scale easily and perform rolling updates. What kubernetes resource type can you use to do this

A. Dameon set
B. Replica set
C. Deployment
D. pod
E. service
F. Stateful set

Answer: C

Explanation:
https://kubernetes.io/docs/concepts/workloads/controllers/deployment/ Graphical user interface, text, application Description automatically generated



NEW QUESTION 13
What is not semantic versioning?

A. 1.0.0
B. 2022-05-04
C. 1.0.0-alpha
D. 1.0.0-beta.2

Answer: B

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

NEW QUESTION 14
The Kubernetes API provides an interface for storing objects. Which of the following describes the type of objects stored by the Kubernetes API?

A. Containers
B. REST
C. YAML
D. ETCD

Answer: B

Explanation:
Kubernetes objects are RESTful objects.

NEW QUESTION 15
What is a commonly used package manager for kubernetes applications?

A. npm
B. apt
C. helm
D. kubernetes manifest

Answer: C

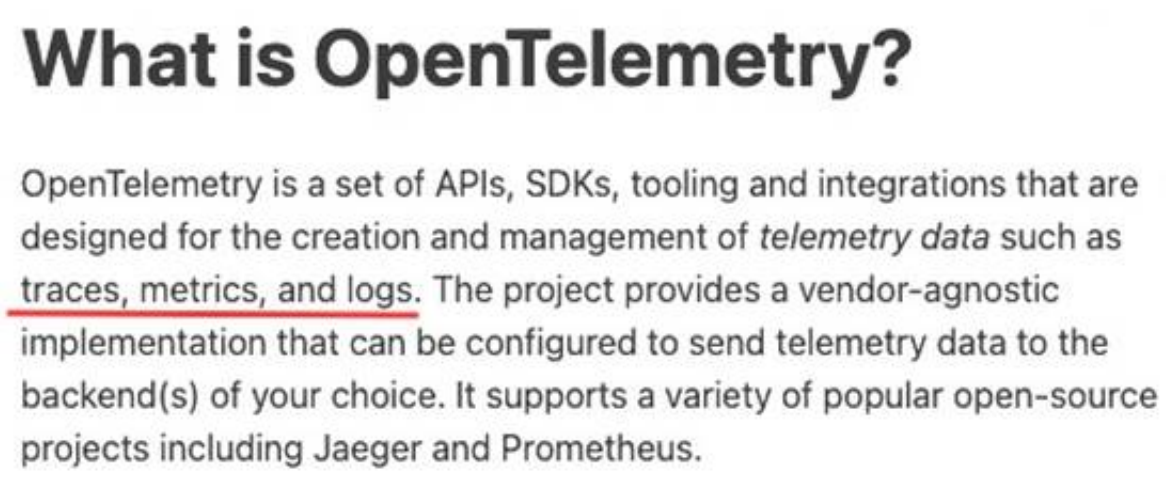
Explanation:
https://helm.sh/

NEW QUESTION 16
The three typical opentelemetry data is?

A. Metrics
B. Traces
C. Logs
D. All of the options

Answer: D

Explanation:
https://opentelemetry.io/docs/concepts/data-sources/ Text Description automatically generated

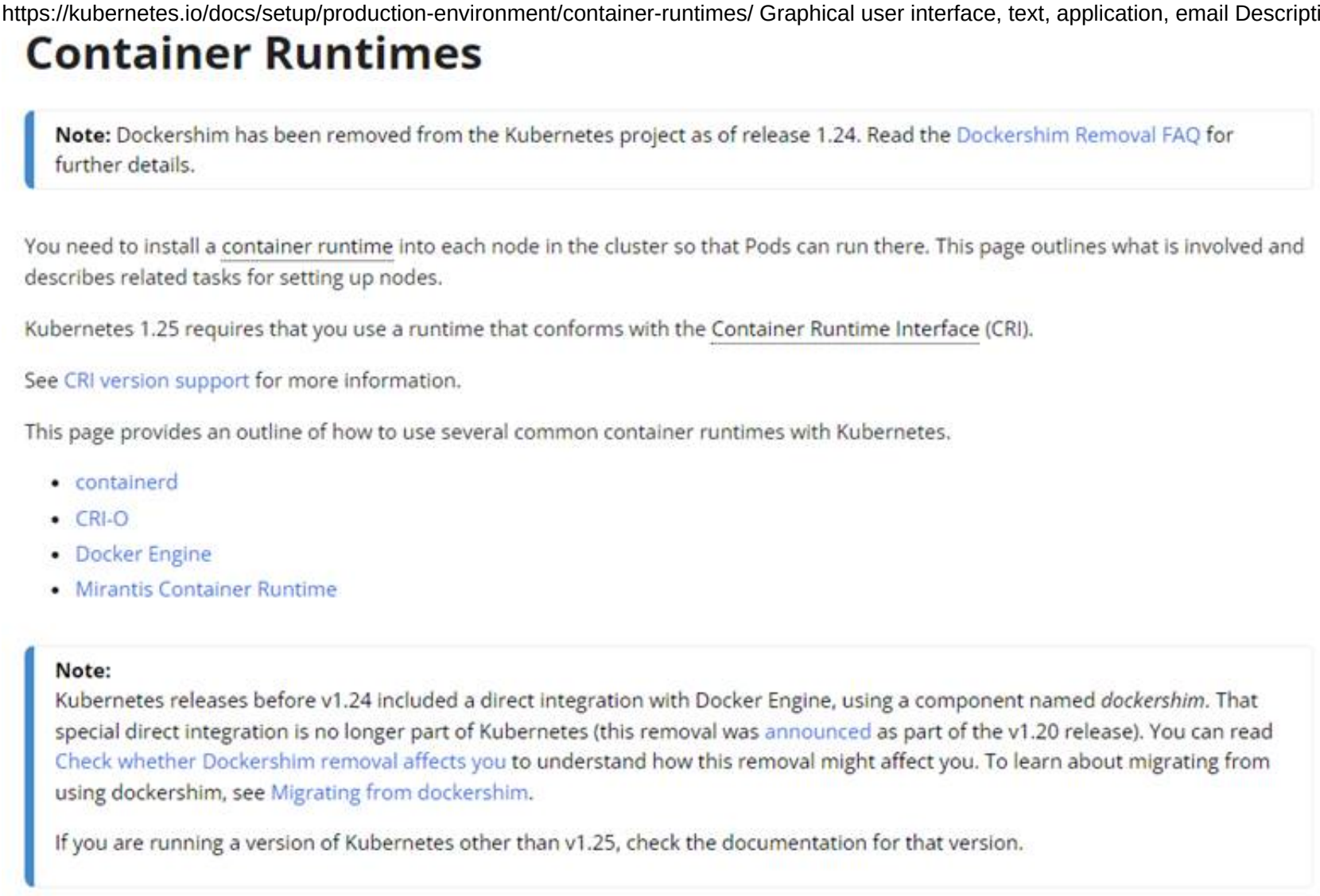


NEW QUESTION 17
What are container runtimes with Kubernetes?

A. CRI-O
B. lxd
C. containerd
D. Dockershim

Answer: AC

Explanation:
https://kubernetes.io/docs/setup/production-environment/container-runtimes/ Graphical user interface, text, application, email Description automatically generated

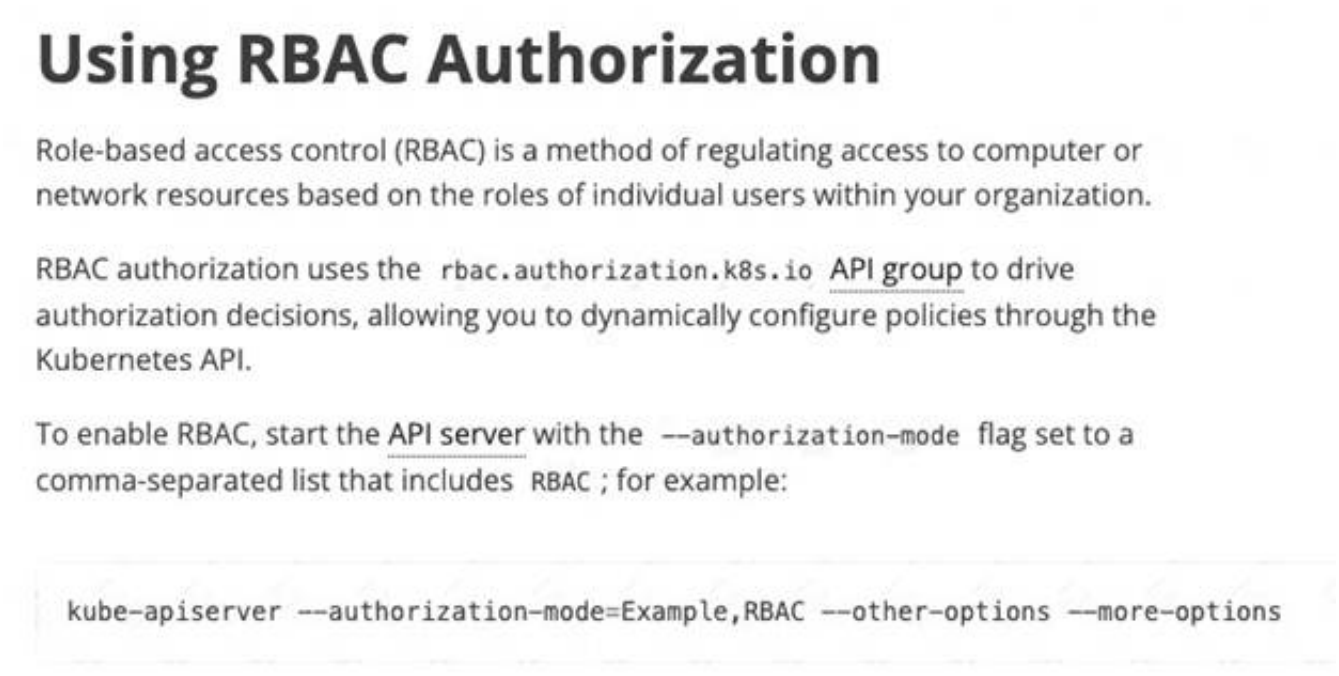


NEW QUESTION 18
Which of the following best describes the way kubernetes Role-based access control (RBAC) works?

A. Kubernetes does not do RBAC
B. Kubernetes RBAC states which users can perform which actions against which re-source
C. Kubernetes RBAC lists which operations on which resources are denied to users
D. Kubernetes RBAC is responsible for authenticating subjects such as users and groups

Answer: B

Explanation:
https://kubernetes.io/docs/reference/access-authn-authz/rbac/
Graphical user interface, text, application, email Description automatically generated

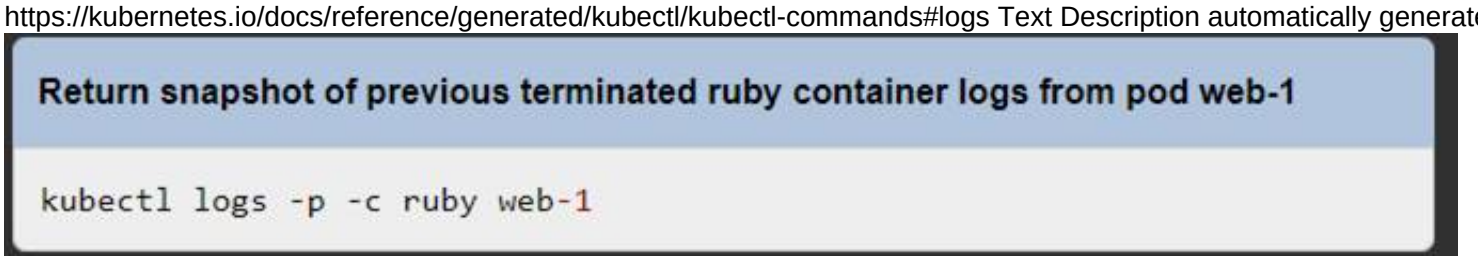


NEW QUESTION 19
How to get the logs of the previously terminated nginx container from the web pod?

A. kubectl logs -p -c nginx web
B. kubectl logs nginx
C. kubectl logs -p -c web nginx
D. kubectl logs -f -c nginx web

Answer: A

Explanation:
https://kubernetes.io/docs/reference/generated/kubectl/kubectl-commands#logs Text Description automatically generated with medium confidence

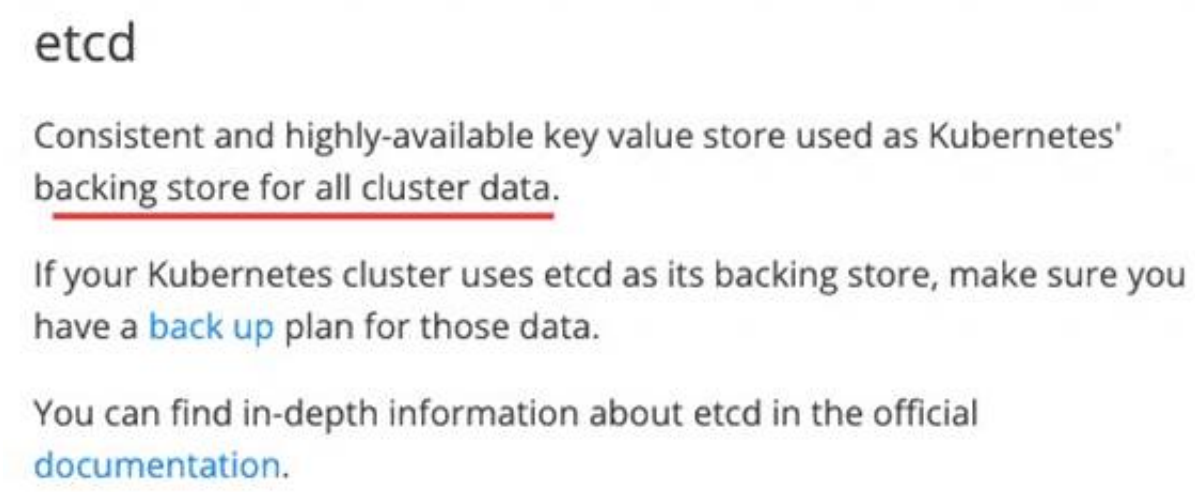


NEW QUESTION 20
In Kubernetes, what is considered the primary cluster data source?

A. etcd (pronounce: esty-d)
B. api server
C. kubelet
D. scheduler

Answer: A

Explanation:
https://kubernetes.io/docs/concepts/overview/components/#etcd
Graphical user interface, text, application, email Description automatically generated



NEW QUESTION 21
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