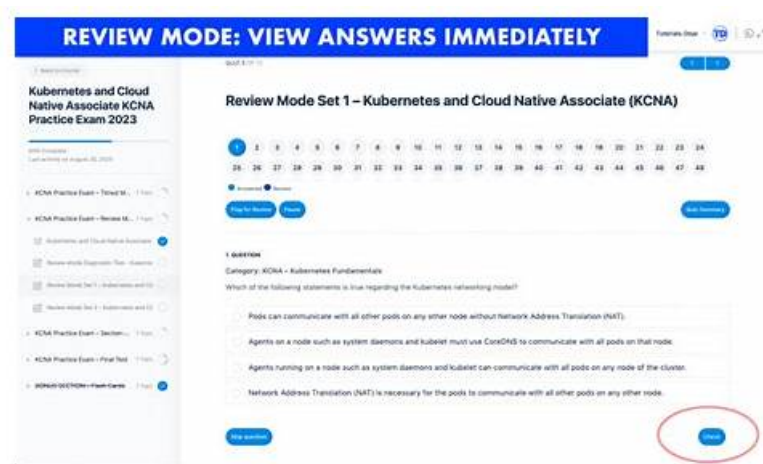


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Linux Foundation Kubernetes and Cloud Native Associate Sample Questions (Q191-Q196):

NEW QUESTION # 191

What are default kubernetes namespaces?

- A. default, kube-public, kube-system, kube-node-leases
- B. default, kube-public, kube-systems, kube-node-lease
- C. kube-default, kube-public, kube-system, kube-node-lease
- D. default, kube-public, kube-system, kube-node-lease

Answer: D

Explanation:

<https://kubernetes.io/docs/concepts/overview/working-with-objects/namespaces/>

You can list the current namespaces in a cluster using:

```
kubectl get namespace
```

NAME	STATUS	AGE
default	Active	1d
kube-node-lease	Active	1d
kube-public	Active	1d
kube-system	Active	1d

Kubernetes starts with four initial namespaces:

- **default** The default namespace for objects with no other namespace
- **kube-system** The namespace for objects created by the Kubernetes system
- **kube-public** This namespace is created automatically and is readable by all users (including those not authenticated). This namespace is mostly reserved for cluster usage, in case that some resources should be visible and readable publicly throughout the whole cluster. The public aspect of this namespace is only a convention, not a requirement.
- **kube-node-lease** This namespace holds **Lease** objects associated with each node. Node leases allow the kubelet to send **heartbeats** so that the control plane can detect node failure.

NEW QUESTION # 192

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

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

Answer: B

Explanation:

<https://kubernetes.io/docs/reference/generated/kubectl/kubectl-commands#describe>

Describe a pod

```
kubectl describe pods/nginx
```

Describe a pod identified by type and name in "pod.json"

```
kubectl describe -f pod.json
```

Describe all pods

```
kubectl describe pods
```

NEW QUESTION # 193

Consider the following Kubernetes pod YAML definition:

```
apiVersion: v1
kind: Pod
metadata:
  name: my-pod
spec:
  containers:
  - name: nginx
    image: nginx:1.14.2
    resources:
      requests:
        cpu: 100m
        memory: 200Mi
      limits:
        cpu: 200m
        memory: 400Mi
  nodeSelector:
    kubernetes.io/hostname: node1
  tolerations:
  - key: "key1"
    operator: "Equal"
    value: "value1"
    effect: "NoSchedule"
```

Which of the following statements is TRUE about this pod's scheduling behavior?

- A. The pod will only be scheduled on a node with the label 'kubernetes.io/hostname: node1', regardless of available resources.
- B. The pod will be scheduled on any node that meets the 'nodeSelector' and 'tolerations' conditions, but it may be evicted if resources become scarce.
- C. The pod will only be scheduled on a node with the label 'key: value1', regardless of available resources.
- **D. The pod will not be scheduled on any node that has the taint 'key: value: NoSchedule', as long as the 'nodeSelector' condition is met.**
- E. The pod will only be scheduled on a node that has at least 100m CPU and 200Mi memory available.

Answer: D

Explanation:

The 'nodeSelector' field instructs Kubernetes to schedule the pod ONLY on a node labeled with 'kubernetes.io/hostname: node1'. However, the 'tolerations' field specifies that the pod can tolerate a taint with the key 'key', the value 'value1', and the effect 'NoSchedule'. This means that the pod will NOT be scheduled on a node that has that taint applied, even if the node meets the 'nodeSelector' condition. The 'requests' and 'limits' fields specify resource requirements for the pod, but they are not the primary factor determining the pod's scheduling in this case. The 'tolerations' field takes precedence due to its 'NoSchedule' effect.

NEW QUESTION # 194

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>

CLOUD NATIVE TRAIL MAP

The Cloud Native Landscape l.cncf.io 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 circumstances.

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 cncf.io/training

B. Consulting Help

If you want assistance with Kubernetes and the surrounding ecosystem, consider leveraging a Kubernetes Certified Service Provider cncf.io/kcsp

C. Join CNCF's End User Community

For companies that don't offer cloud native services externally cncf.io/enduser

WHAT IS CLOUD NATIVE?

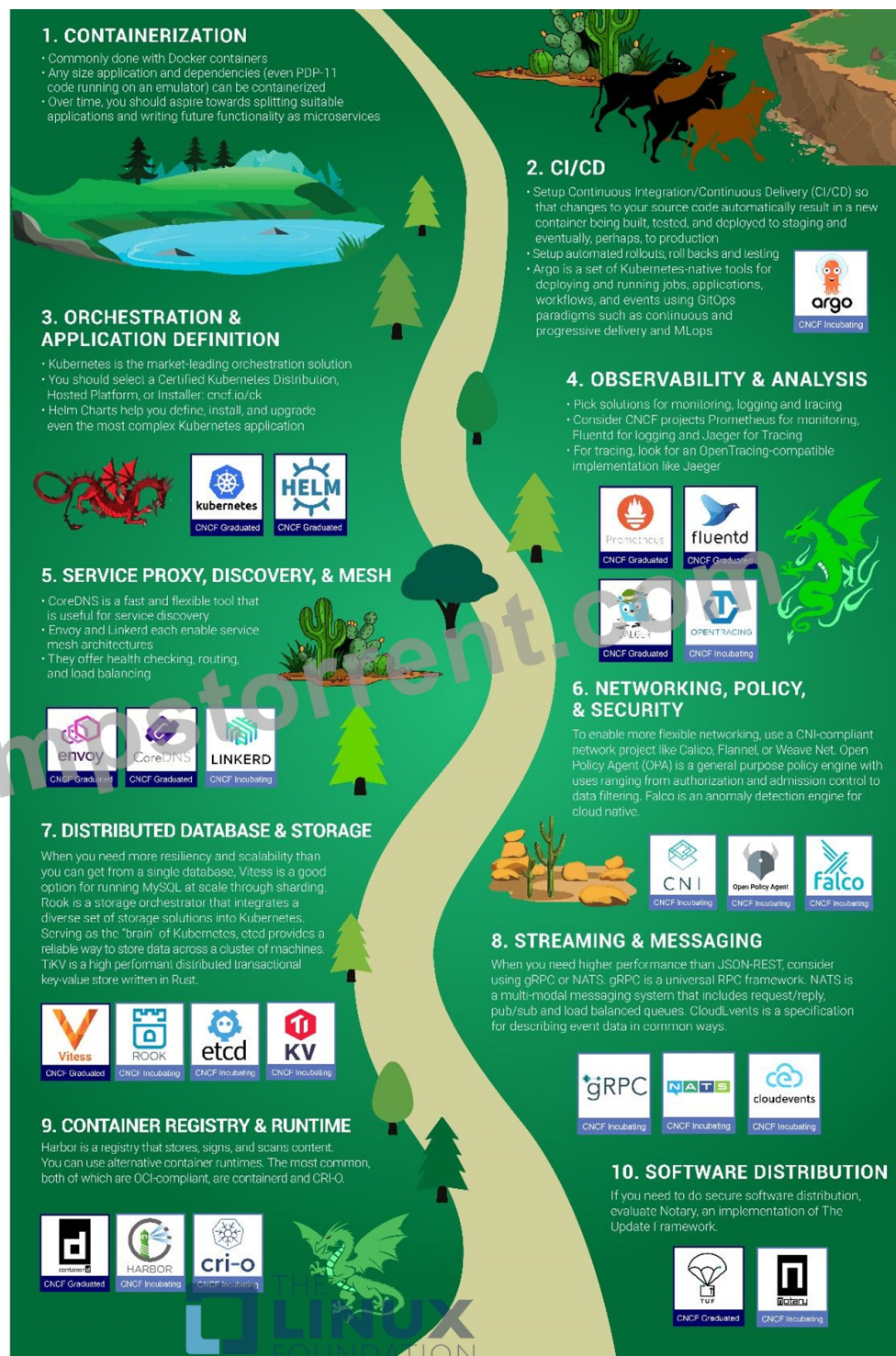
Cloud native technologies empower organizations to build and run scalable applications in modern, dynamic environments such as public, private, and hybrid clouds. Containers, service meshes, microservices, immutable infrastructure, and declarative APIs exemplify this approach.

These techniques enable loosely coupled systems that are resilient, 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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NEW QUESTION # 195

You are deploying a web application that requires high availability. You have configured a Kubernetes Deployment with 3 replicas. However, you notice that when one pod restarts, it takes a significant amount of time for the application to become fully operational again. What Kubernetes feature could you use to minimize the downtime during pod restarts?

- A. Service
- B. DaemonSet
- C. StatefulSet
- D. Horizontal Pod Autoscaler
- E. Pod Disruption Budget

Answer: E

A Pod Disruption Budget (PDB) allows you to specify a minimum number of healthy pods that must be available at any given time. This helps prevent large-scale disruptions during rolling updates or pod restarts. By setting a PDB, you can ensure that your web application remains available during these events, minimizing downtime.

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