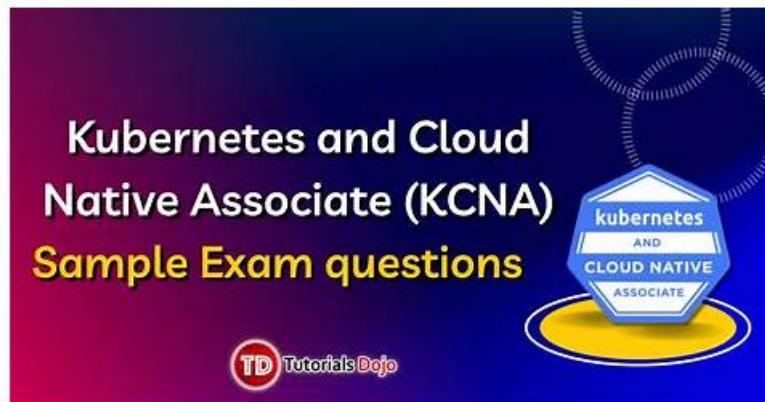


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Linux Foundation is a non-profit organization that provides support and resources for open-source software projects. One of its most popular offerings is the Kubernetes and Cloud Native Associate (KCNA) certification exam. Kubernetes and Cloud Native Associate certification is designed for professionals who want to demonstrate their expertise in managing and deploying cloud-native applications using Kubernetes.

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Linux Foundation Kubernetes and Cloud Native Associate Sample Questions (Q177-Q182):

NEW QUESTION # 177

You have a Kubernetes cluster with a custom network plugin that provides advanced networking capabilities. What needs to be considered when configuring this custom network plugin?

- A. Integrate the plugin with the Kubernetes API server to manage network resources.
- B. Deploy the plugin as a DaemonSet on each Kubernetes node.
- C. Configure the plugin to support Kubernetes service discovery and load balancing.
- D. Test the plugin thoroughly with your applications to ensure compatibility and performance.
- E. Ensure that the custom plugin adheres to the Kubernetes CNI (Container Network Interface) specification.

Answer: A,B,C,D,E

Explanation:

All of the options are important considerations when configuring a custom network plugin in Kubernetes- - A Adherence to the CNI specification ensures interoperability with Kubernetes and other CNI plugins- - B: Support for service discovery and load balancing

is crucial for seamless integration with Kubernetes services. - C: Integration with the Kubernetes API server allows the plugin to be managed and controlled by Kubernetes- - D Deploying the plugin as a DaemonSet ensures its availability and consistent behavior across all nodes. - E Thorough testing is essential to guarantee compatibility with your applications and the desired performance characteristics.

NEW QUESTION # 178

Which project is not a dominant CNCF project in the storage landscape?

- A. Rook
- **B. Envoy**
- C. Vitess
- D. TiKV

Answer: B

Explanation:

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



CLOUD NATIVE TRAIL MAP

The Cloud Native Landscape 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.

l.cncf.io



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1. CONTAINERIZATION

- Commonly done with Docker containers
- Any size application and dependencies (even PDP-11 code running on an emulator) can be containerized
- Over time, you should aspire towards splitting suitable applications and writing future functionality as microservices



3. ORCHESTRATION & APPLICATION DEFINITION

- Kubernetes is the market-leading orchestration solution
- You should select a Certified Kubernetes Distribution, Hosted Platform, or Installer: cncf.io/ck
- Helm Charts help you define, install, and upgrade even the most complex Kubernetes applications



5. SERVICE PROXY, DISCOVERY, & MESH

- CoreDNS is a fast and flexible tool that is useful for service discovery
- Envoy and Linkerd each enable service mesh architectures
- They offer health checking, routing, and load balancing



7. DISTRIBUTED DATABASE & STORAGE

When you need more resiliency and scalability than you can get from a single database, Vitess is a good option for running MySQL at scale through sharding. Rock is a storage orchestrator that integrates a diverse set of storage solutions into Kubernetes. Serving as the 'brain' of Kubernetes, etcd provides a reliable way to store data across a cluster of machines. TiKV is a high performant distributed transactional key-value store written in Rust.



9. CONTAINER REGISTRY & RUNTIME

Harbor is a registry that stores, signs, and scans content. You can use alternative container runtimes. The most common, both of which are OCI-compliant, are containerd and cri-o.



2. CI/CD

2. CI/CD

- Setup Continuous Integration/Continuous Delivery (CI/CD) so that changes to your source code automatically result in a new container being built, tested, and deployed to staging and eventually, perhaps, to production
- Setup automated rollouts, roll backs and testing
- Argo is a set of Kubernetes-native tools for deploying and running jobs, applications, workflows, and events using GitOps paradigms such as continuous and progressive delivery and MLOps



4. OBSERVABILITY & ANALYSIS

- Pick solutions for monitoring, logging and tracing
- Consider CNCF projects Prometheus for monitoring, Fluentd for logging and Jaeger for Tracing
- For tracing, look for an OpenTracing-compatible implementation like Jaeger



6. NETWORKING, POLICY, & SECURITY

To enable more flexible networking, use a CNI-compliant network project like Calico, Flannel, or Weave Net. Open Policy Agent (OPA) is a general purpose policy engine with rules ranging from authorization and admission control to data filtering. Falco is an anomaly detection engine for cloud native.



8. STREAMING & MESSAGING

When you need higher performance than JSON-REST, consider using gRPC or NATS. gRPC is a universal RPC framework. NATS is a multi-modal messaging system that includes request/reply, pub/sub and load balanced queues. CloudEvents is a specification for describing event data in common ways.



10. SOFTWARE DISTRIBUTION

If you need to do secure software distribution, evaluate Notary, an implementation of The Update Framework.



NEW QUESTION # 179

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 not be scheduled on any node that has the taint `*key1: value1: NoSchedule*` , as long as the `*nodeSelector*` condition is met.
- B. The pod will only be scheduled on a node with the label 'key1: value1s, regardless of available resources.
- C. The pod will only be scheduled on a node with the label 'kubernetes.io/hostname: node1, regardless of available resources.
- D. The pod will be scheduled on any node that meets the `*nodeSelector*` and `*tolerations*` conditions, but it may be evicted if resources become scarce.
- E. The pod will only be scheduled on a node that has at least 100m CPU and 200Mi memory available.

Answer: A

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 `'key1'` , 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 # 180

Which Kubernetes API resource is responsible for defining the structure of your Kubernetes cluster, including the number and types of nodes?

- A. Node
- B. Service
- C. pod
- D. Deployment
- E. Cluster

Answer: E

Explanation:

The Cluster resource is responsible for defining the structure of the Kubernetes cluster, including the number and types of nodes. It is a top-level resource in Kubernetes. Deployments, Services, Pods, and Nodes are all lower-level resources that are defined within a cluster.

NEW QUESTION # 181

Which CNCF project is the dominant project with respect to container registries

- A. Rook
- B. Harbor
- C. Envoy
- D. Kubernetes

Answer: B

Explanation:

<https://goharbor.io/>

NEW QUESTION # 182

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