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## KCNA - Newest Kubernetes and Cloud Native Associate Reliable Test Pdf

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## Linux Foundation Kubernetes and Cloud Native Associate Sample Questions (Q179-Q184):

### NEW QUESTION # 179

Your Kubernetes cluster is running a batch processing workload that only needs to run during specific time windows. How can you

effectively manage the cost associated with this workload?

- A. Configure a horizontal pod autoscaler (HPA) to scale the workload up during the time window and down afterward.
- **B. Use a CronJob to schedule the batch processing workload to run only during the required time window.**
- C. Manually scale the workload up and down during the required time window.
- D. Create a separate namespace for the batch processing workload and apply resource quotas to limit its resource consumption.
- **E. Utilize spot instances or preemptible nodes for the batch processing workload, leveraging their discounted pricing.**

**Answer: B,E**

Explanation:

For batch processing workloads with defined time windows, scheduling and leveraging cost-effective resources are key. CronJobs can be used to schedule the workload to run only during the required time window, eliminating unnecessary resource consumption. Utilizing spot instances or preemptible nodes provides discounted pricing for workloads that can tolerate interruptions, further reducing costs. While HPA can scale workloads, it's not the most efficient approach for time-bound batch processing. Creating a separate namespace and applying resource quotas can limit resource usage, but doesn't directly address the intermittent nature of the workload. Manually scaling up and down is inefficient and prone to errors.

### NEW QUESTION # 180

Consider the following Kubernetes YAML definition:

```
apiVersion: v1
kind: Pod
metadata:
  name: nginx-pod
spec:
  containers :
  - name: nginx
    image: nginx: latest
  ports :
  - containerPort: 80
```

If you were to deploy this Pod definition, what port would the Nginx server be listening on inside the container?

- A. The port is not specified in the YAML.
- B. 0
- C. 0 22
- **D. 1**
- E. 2

**Answer: D**

Explanation:

The •containerPort• field in the YAML defines the port that the container's Nginx server will listen on. In this case, it's explicitly set to '80'

### NEW QUESTION # 181

What is a cloud native application?

- **A. It is an application designed to be scalable and take advantage of services running on the cloud.**
- B. It is a monolithic application that has been containerized and is running now on the cloud.
- C. It is any application that runs in a cloud provider and uses its services.
- D. It is an application designed to run all its functions in separate containers.

**Answer: A**

Explanation:

B is correct. A cloud native application is designed to be scalable, resilient, and adaptable, and to leverage cloud/platform capabilities rather than merely being "hosted" on a cloud VM. Cloud-native design emphasizes principles like elasticity (scale up/down), automation, fault tolerance, and rapid, reliable delivery. While containers and Kubernetes are common enablers, the key

is the architectural intent: build applications that embrace distributed systems patterns and cloud-managed primitives.

Option A is not enough. Simply containerizing a monolith and running it in the cloud does not automatically make it cloud native; that may be "lift-and-shift" packaging. The application might still be tightly coupled, hard to scale, and operationally fragile. Option C is too narrow and prescriptive; cloud native does not require "all functions in separate containers" (microservices are common but not mandatory). Many cloud-native apps use a mix of services, and even monoliths can be made more cloud native by adopting statelessness, externalized state, and automated delivery. Option D is too broad; "any app running in a cloud provider" includes legacy apps that don't benefit from elasticity or cloud-native operational models.

Cloud-native applications typically align with patterns: stateless service tiers, declarative configuration, health endpoints, horizontal scaling, graceful shutdown, and reliance on managed backing services (databases, queues, identity, observability). They are built to run reliably in dynamic environments where instances are replaced routinely—an assumption that matches Kubernetes' reconciliation and self-healing model.

So, the best verified definition among these options is B.

### NEW QUESTION # 182

Which command-line tool is used to interact with the Kubernetes cluster?

- A. **kubectl**
- B. kube-scheduler
- C. kube-api

**Answer: A**

Explanation:

<https://kubernetes.io/docs/reference/kubectl/>

### NEW QUESTION # 183

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

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

**Answer: A**

Explanation:

<https://kubernetes.io/docs/concepts/overview/components/#etcd>

### NEW QUESTION # 184

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