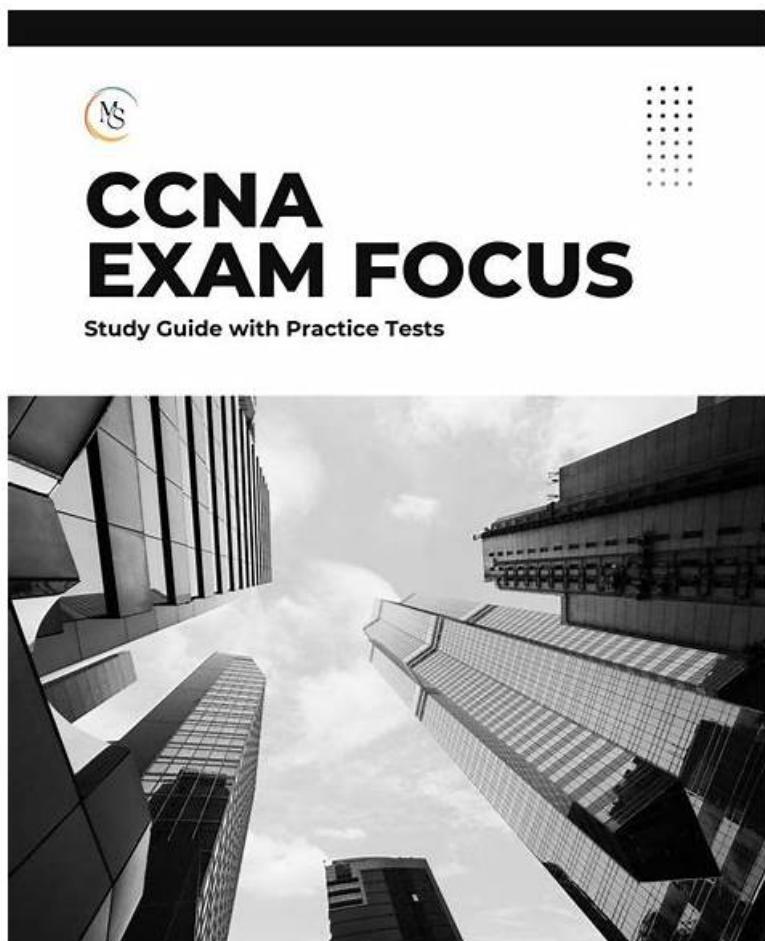


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Linux Foundation Kubernetes and Cloud Native Associate Sample Questions (Q180-Q185):

NEW QUESTION # 180

You have a Kubernetes cluster with multiple worker nodes. Node1 has a label `role: web`, Node2 has a label `*role: database*`, and Node3 has no labels. You deploy a pod with a `nodeSelector` set to `'role: web'`. Which node(s) is/are eligible for the pod to be scheduled on?

- A. Only Node1.
- B. Any of the nodes.
- C. Node1 and Node2.
- D. Only Node3.
- E. only Node2.

Answer: A

Explanation:

The `nodeSelector` field explicitly specifies that the pod must be scheduled on a node with the label `role: web`. Only Node1 has this label, so it is the only eligible node. The absence of labels or the presence of different labels on other nodes does not satisfy the pod's scheduling requirements.

NEW QUESTION # 181

What does CNCF stand for?

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

Answer: C

Explanation:

<https://www.cncf.io/about/who-we-are/>

NEW QUESTION # 182

Manual reclamation policy of a PV resource is known as:

- A. Retain
- B. claimRef
- C. Delete
- D. Recycle

Answer: A

Explanation:

The correct answer is C: Retain. In Kubernetes persistent storage, a PersistentVolume (PV) has a `persistentVolumeReclaimPolicy` that determines what happens to the underlying storage asset after its `PersistentVolumeClaim` (PVC) is deleted. The reclaim policy options historically include Delete and Retain (and Recycle, which is deprecated/removed in many modern contexts). "Manual reclamation" refers to the administrator having to manually clean up and/or rebind the storage after the claim is released-this behavior

corresponds to Retain.

With Retain, when the PVC is deleted, the PV moves to a "Released" state, but the actual storage resource (cloud disk, NFS path, etc.) is not deleted automatically. Kubernetes will not automatically make that PV available for a new claim until an administrator takes action—typically cleaning the data, removing the old claim reference, and/or creating a new PV/PVC binding flow. This is important for data safety: you don't want to automatically delete sensitive or valuable data just because a claim was removed. By contrast, Delete means Kubernetes (via the storage provisioner/CSI driver) will delete the underlying storage asset when the claim is deleted—useful for dynamic provisioning and disposable environments. Recycle used to scrub the volume contents and make it available again, but it's not the recommended modern approach and has been phased out in favor of dynamic provisioning and explicit workflows.

So, the policy that implies manual intervention and manual cleanup/reuse is Retain, which is option C.

NEW QUESTION # 183

In a serverless computing architecture:

- A. Users of the cloud provider are charged based on the number of requests to a function.
- B. Serverless functions are incompatible with containerized functions.
- C. Containers serving requests are running in the background in idle status.
- D. Users should make a reservation to the cloud provider based on an estimation of usage.

Answer: A

Explanation:

Serverless architectures typically bill based on actual consumption, often measured as number of requests and execution duration (and sometimes memory/CPU allocated), so A is correct. The defining trait is that you don't provision or manage servers directly; the platform scales execution up and down automatically, including down to zero for many models, and charges you for what you use.

Option B is incorrect: many serverless platforms can run container-based workloads (and some are explicitly "serverless containers"). The idea is the operational abstraction and billing model, not incompatibility with containers. Option C is incorrect because "making a reservation based on estimation" describes reserved capacity purchasing, which is the opposite of the typical serverless pay-per-use model. Option D is misleading: serverless systems aim to avoid charging for idle compute; while platforms may keep some warm capacity for latency reasons, the customer-facing model is not "containers running idle in the background." In cloud-native architecture, serverless is often chosen for spiky, event-driven workloads where you want minimal ops overhead and cost efficiency at low utilization. It pairs naturally with eventing systems (queues, pub/sub) and can be integrated with Kubernetes ecosystems via event-driven autoscaling frameworks or managed serverless offerings.

So the correct statement is A: charging is commonly based on requests (and usage), which captures the cost and operational model that differentiates serverless from always-on infrastructure.

NEW QUESTION # 184

You have a Kubernetes cluster with multiple applications deployed. Each application is instrumented to emit logs, metrics, and traces. You want to use a single dashboard to visualize the performance of all applications in a unified view. What are the possible approaches to achieve this?

- A. Use Grafana to create a single dashboard that queries data from Prometheus and Jaeger.
- B. Use Loki for log aggregation and create a single dashboard in Grafana to visualize logs, metrics, and traces.
- C. Use a custom application to collect and aggregate data from Prometheus, Jaeger, and Loki, and then visualize the data on a custom dashboard.
- D. Use Prometheus to aggregate metrics from all applications and create a single dashboard.
- E. Configure Kubernetes to forward logs, metrics, and traces to a centralized observability platform like CloudWatch or Stackdriver.

Answer: A,B,C,D,E

Explanation:

All of the provided options can contribute to achieving a unified dashboard for visualizing the performance of multiple applications. Each option has its strengths and weaknesses: A: Use Prometheus to aggregate metrics from all applications and create a single dashboard. Prometheus is a powerful tool for collecting and aggregating metrics. You can use Prometheus's query language to fetch data from multiple applications and create a centralized dashboard in Grafana or a custom application. B: Use Grafana to create a single dashboard that queries data from Prometheus and Jaeger. Grafana is a popular dashboarding tool that can visualize data from multiple sources. It can query metrics from Prometheus and tracing data from Jaeger to create a unified view. C: Use Loki for log

aggregation and create a single dashboard in Grafana to visualize logs, metrics, and traces. Loki is a log aggregation system that can collect logs from various sources, including Kubernetes. By integrating Loki with Grafana, you can visualize logs, metrics, and traces on a single dashboard. D: Use a custom application to collect and aggregate data from Prometheus, Jaeger, and Loki, and then visualize the data on a custom dashboard. You can build a custom application to collect data from Prometheus, Jaeger, and Loki and then create a custom dashboard using a framework like React or Vue.js. This allows you to have full control over the data aggregation and visualization process. E: Configure Kubernetes to forward logs, metrics, and traces to a centralized observability platform like CloudWatch or Stackdriver. Cloud-based observability platforms like Amazon CloudWatch or Google Stackdriver provide a centralized platform for collecting, aggregating, and visualizing data from multiple applications. These platforms often have pre-built dashboards and alerting capabilities, making it easy to monitor and analyze data from different applications in a unified view. The best approach depends on your specific needs, resources, and preferred tools. You can choose a combination of these options to meet your requirements.

NEW QUESTION # 185

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