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Linux Foundation Kubernetes and Cloud Native Associate Sample Questions (Q239-Q244):

NEW QUESTION # 239

What native runtime is Open Container Initiative (OCI) compliant?

- A. gvisor
- B. kata-containers
- C. runV
- **D. runC**

Answer: D

Explanation:

The Open Container Initiative (OCI) publishes open specifications for container images and container runtimes so that tools across the ecosystem remain interoperable. When a runtime is "OCI-compliant," it means it implements the OCI Runtime Specification (how to run a container from a filesystem bundle and configuration) and/or works cleanly with OCI image formats through the usual layers (image → unpack → runtime). runC is the best-known, widely used reference implementation of the OCI runtime specification and is the low-level runtime underneath many higher-level systems. In Kubernetes, you typically interact with a higher-level container runtime (such as containerd or CRI-O) through the Container Runtime Interface (CRI). That higher-level runtime then uses a low-level OCI runtime to actually create Linux namespaces/cgroups, set up the container process, and start it. In many default installations, containerd delegates to runC for this low-level "create/start" work.

The other options are related but differ in what they are: Kata Containers uses lightweight VMs to provide stronger isolation while still presenting a container-like workflow; gVisor provides a user-space kernel for sandboxing containers; these can be used with Kubernetes via compatible integrations, but the canonical "native OCI runtime" answer in most curricula is runC. Finally, "runV" is not a common modern Kubernetes runtime choice in typical OCI discussions. So the most correct, standards-based answer here is A (runC) because it directly implements the OCI runtime spec and is commonly used as the default low-level runtime behind CRI implementations.

NEW QUESTION # 240

Which of these events will cause the kube-scheduler to assign a Pod to a node?

- **A. When a new Pod is created and has no assigned node.**
- B. When the Pod crashes because of an error.
- C. When the CPU load on the node becomes too high.
- D. When a new node is added to the Kubernetes cluster.

Answer: A

Explanation:

The kube-scheduler assigns a node to a Pod when the Pod is unscheduled—meaning it exists in the API server but has no spec.nodeName set. The event that triggers scheduling is therefore: a new Pod is created and has no assigned node, which is option D.

Kubernetes scheduling is declarative and event-driven. The scheduler continuously watches for Pods that are in a "Pending" unscheduled state. When it sees one, it runs a scheduling cycle: filtering nodes that cannot run the Pod (insufficient resources based on requests, taints/tolerations, node selectors/affinity rules, topology spread constraints), then scoring the remaining feasible nodes to pick the best candidate. Once selected, the scheduler "binds" the Pod to that node by updating the Pod's spec.nodeName. After that, kubelet on the chosen node takes over to pull images and start containers.

Option A (Pod crashes) does not directly cause scheduling. If a container crashes, kubelet may restart it on the same node according to restart policy. If the Pod itself is replaced (e.g., by a controller like a Deployment creating a new Pod), that new Pod will be scheduled because it's unscheduled—but the crash event itself isn't the scheduler's trigger. Option B (new node added) might create more capacity and affect future scheduling decisions, but it does not by itself trigger assigning a particular Pod; scheduling still happens because there are unscheduled Pods. Option C (CPU load high) is not a scheduling trigger; scheduling is based on declared requests and constraints, not instantaneous node CPU load (that's a common misconception).

So the correct, Kubernetes-architecture answer is D: kube-scheduler assigns nodes to Pods that are newly created (or otherwise pending) and have no assigned node.

NEW QUESTION # 241

You are using Prometheus to monitor a Kubernetes cluster. You want to set up an alert that triggers when the average CPU usage of all nodes in the cluster exceeds 80% for the last 10 minutes. Which Prometheus query can achieve this?

- A.
- B.
- C.
- D.
- E.

Answer: A

Explanation:

The query `> 0.8` calculates the average system CPU usage across all nodes over the last 10 minutes. The filter ensures that only system CPU usage is considered. If the average exceeds 0.8 (80%), the alert will trigger.

NEW QUESTION # 242

Which of the following is the name of a container orchestration software?

- A. CRI-O
- B. OpenStack
- C. Apache Mesos
- D. Docker

Answer: C

Explanation:

C (Apache Mesos) is correct because Mesos is a cluster manager/orchestrator that can schedule and manage workloads (including containerized workloads) across a pool of machines. Historically, Mesos (often paired with frameworks like Marathon) was used to orchestrate services and batch jobs at scale, similar in spirit to Kubernetes' scheduling and cluster management role.

Why the other answers are not correct as "container orchestration software" in this context:

OpenStack (A) is primarily an IaaS cloud platform for provisioning compute, networking, and storage (VM-focused). It's not a container orchestrator, though it can host Kubernetes or containers.

Docker (B) is a container platform/tooling ecosystem (image build, runtime, local orchestration via Docker Compose/Swarm historically), but "Docker" itself is not the best match for "container orchestration software" in the multi-node cluster orchestration sense that the question implies.

CRI-O (D) is a container runtime implementing Kubernetes' CRI; it runs containers on a node but does not orchestrate placement, scaling, or service lifecycle across a cluster.

Container orchestration typically means capabilities like scheduling, scaling, service discovery integration, health management, and rolling updates across multiple hosts. Mesos fits that definition: it provides resource management and scheduling over a cluster and can run container workloads via supported containerizers. Kubernetes ultimately became the dominant orchestrator for many use cases, but Mesos is clearly recognized as orchestration software in this category.

So, among these choices, the verified orchestration platform is Apache Mesos (C).

NEW QUESTION # 243

You are implementing a new security policy for your Kubernetes cluster. The policy requires that all pods running in the cluster must authenticate with a specific identity provider before they are allowed to access any resources. Which Kubernetes component is responsible for enforcing this authentication policy?

- A. kubelet
- B. etcd
- C. kubect1
- D. kube-apiserver

- E. kube-proxy

Answer: D

Explanation:

The kube-apiserver component acts as the central control plane for Kubernetes. It handles all communication and requests from other components, including authentication and authorization. It enforces security policies by verifying credentials and granting access based on configured rules.

NEW QUESTION # 244

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