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Linux Foundation Kubernetes and Cloud Native Associate Sample Questions (Q41-Q46):

NEW QUESTION # 41

A request for 500 mebibytes of ephemeral storage must be specified in a YAML file. How should this be written?

- A. 500m
- B. 500Mi
- C. 500mi

- D. 0.5M

Answer: B

Explanation:

In Kubernetes, resource quantities must be expressed using specific, well-defined units. When requesting ephemeral storage, Kubernetes follows the same quantity format rules as other resources such as memory.

These rules distinguish between binary units (base-2) and decimal units (base-10), and the correct unit must be used to avoid configuration errors or unintended resource allocation.

The term mebibyte (MiB) is a binary unit equal to 2^{20} bytes (1,048,576 bytes). Kubernetes represents mebibytes using the suffix Mi with a capital "M" and lowercase "i". Therefore, a request for 500 mebibytes of ephemeral storage must be written as 500Mi, making option A the correct answer.

Option B, 500mi, is incorrect because Kubernetes resource units are case-sensitive. The lowercase mi is not a valid unit and will be rejected by the API server. Option C, 500m, is also incorrect because the suffix m represents millicpu when used with CPU resources and has no meaning for storage quantities. Using m for ephemeral storage would result in a validation error. Option D, 0.5M, is incorrect because M represents a decimal megabyte (10^6 bytes), not a mebibyte, and Kubernetes best practices require binary units for memory-based resources like ephemeral storage.

Ephemeral storage requests are typically defined under the container's resources.requests.ephemeral-storage field. Correctly specifying the unit ensures that the scheduler can accurately account for node storage capacity and enforce eviction thresholds when necessary.

In summary, Kubernetes requires precise, case-sensitive units for resource specifications. Since the question explicitly asks for 500 mebibytes, the only valid and correct representation is 500Mi, which aligns exactly with Kubernetes resource quantity conventions.

NEW QUESTION # 42

What is a probe within Kubernetes?

- A. A monitoring mechanism of the Kubernetes API.
- B. A logging mechanism of the Kubernetes API.
- C. A diagnostic performed periodically by the kubelet on a container.
- D. A pre-operational scope issued by the kubectl agent.

Answer: C

Explanation:

In Kubernetes, a probe is a health check mechanism that the kubelet executes against containers, so C is correct. Probes are part of how Kubernetes implements self-healing and safe traffic management. The kubelet runs probes periodically according to the configuration in the Pod spec and uses the results to decide whether a container is healthy, ready to receive traffic, or still starting up. Kubernetes supports three primary probe types:

* Liveness probe: determines whether the container should be restarted. If liveness fails repeatedly, kubelet restarts the container (subject to restartPolicy).

* Readiness probe: determines whether the Pod should receive traffic via Services. If readiness fails, the Pod is removed from Service endpoints, preventing traffic from being routed to it until it becomes ready again.

* Startup probe: used for slow-starting containers. It disables liveness/readiness failures until startup succeeds, preventing premature restarts during initialization.

Probe mechanisms can be HTTP GET, TCP socket checks, or exec commands run inside the container.

These checks are performed by kubelet on the node where the Pod is running, not by the API server.

Options A and D incorrectly attribute probes to the Kubernetes API. While probe configuration is stored in the API as part of Pod specs, execution is node-local. Option B is not a Kubernetes concept.

So the correct definition is: a probe is a periodic diagnostic run by kubelet to assess container health /readiness, enabling reliable rollouts, traffic gating, and automatic recovery.

NEW QUESTION # 43

Which is an industry-standard container runtime with an "emphasis" on simplicity, robustness, and portability?

- A. LXD
- B. containerd
- C. kata-runtime
- D. CRI-O

Answer: B

Explanation:

containerd is a widely adopted, industry-standard container runtime known for simplicity, robustness, and portability, so C is correct. containerd originated as a core component extracted from Docker and has become a common runtime across Kubernetes distributions and managed services. It implements container lifecycle management (image pull, unpack, container execution, snapshotting) and typically delegates low-level container execution to an OCI runtime like runc.

In Kubernetes, kubelet communicates with container runtimes through CRI. containerd provides a CRI plugin (or can be integrated via CRI implementations) that makes it a first-class choice for Kubernetes nodes. This aligns with the runtime landscape after dockershim removal: Kubernetes users commonly run containerd or CRI-O as the node runtime.

Option A (CRI-O) is also a CRI-focused runtime and is valid in Kubernetes contexts, but the phrasing

"industry-standard ... emphasis on simplicity, robustness, and portability" is strongly associated with containerd's positioning and broad cross-platform adoption beyond Kubernetes. Option B (LXD) is a system container manager (often associated with LXC) and not the standard Kubernetes runtime in mainstream CRI discussions. Option D (kata-runtime) is associated with Kata Containers, which focuses on stronger isolation by running containers inside lightweight VMs; that is a security-oriented sandbox approach rather than a simplicity/portability "industry standard" baseline runtime.

From a cloud-native operations point of view, containerd's popularity comes from its stable API, strong ecosystem support, and alignment with OCI standards. It integrates cleanly with image registries, supports modern snapshotters, and is heavily used in production by many Kubernetes providers. Therefore, the best verified answer is C: containerd.

NEW QUESTION # 44

Which role is responsible of creating service level indicator 'SLI', service level objective 'SLO', & Service Level Agreements 'SLA'?

- A. DevOps
- B. GitOps
- C. Developer
- D. Security and compliance engineer
- E. Site reliability engineer 'SRE'

Answer: E

Explanation:

<https://www.atlassian.com/incident-management/kpis/sla-vs-slo-vs-sli>

NEW QUESTION # 45

You are monitoring a Kubernetes cluster using Prometheus. You notice a sudden spike in the number of requests to a specific pod, followed by a corresponding increase in pod CPU utilization. Which Prometheus query can you use to identify the specific endpoint being heavily accessed?

- A. `kube_http_server_requests_seconds_bucket{job="", method="GET", uri="/specific_endpoint"}`
- B. `kube_pod_container_resource_requests_cpu_cores{pod=""}`
- C. `kube_pod_container_status_restart_count{pod=""}`
- D. `kube_pod_status_phase{pod=""}`
- E. `kube_deployment_status_replicas{deployment=""}`

Answer: A

Explanation:

The correct answer is E. The query 'kube_http_server_requests_seconds_bucket{job="", method="GET", uri="/specific_endpoint"}' targets HTTP requests made to a specific endpoint within a pod (identified by the 'job', 'method', and 'uri' labels). This query allows you to see the number of requests made to the '/specific_endpoint' and identify spikes in traffic to that endpoint. The other options are not relevant to identifying specific endpoints being heavily accessed. Option A shows CPU resource requests for a pod, option B shows the pod's phase, option C shows the number of replicas in a deployment, and option D shows the restart count for a pod's containers. These queries do not provide information about specific endpoints and traffic patterns.

NEW QUESTION # 46

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