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## Linux Foundation Kubernetes and Cloud Native Associate Sample Questions (Q77-Q82):

### NEW QUESTION # 77

What is a Kubernetes service with no cluster IP address called?

- A. IPLess Service
- B. Specless Service
- **C. Headless Service**
- D. Nodeless Service

**Answer: C**

Explanation:

A Kubernetes Service normally provides a stable virtual IP (ClusterIP) and a DNS name that load-balances traffic across matching

Pods. A headless Service is a special type of Service where Kubernetes does not allocate a ClusterIP. Instead, the Service's DNS returns individual Pod IPs (or other endpoint records), allowing clients to connect directly to specific backends rather than through a single virtual IP. That is why the correct answer is A (Headless Service).

Headless Services are created by setting `spec.clusterIP: None`. When you do this, kube-proxy does not program load-balancing rules for a virtual IP because there isn't one. Instead, service discovery is handled via DNS records that point to the actual endpoints. This behavior is especially important for stateful or identity-sensitive systems where clients must talk to a particular replica (for example, databases, leader/follower clusters, or StatefulSet members).

This is also why headless Services pair naturally with StatefulSets. StatefulSets provide stable network identities (pod-0, pod-1, etc.) and stable DNS names. The headless Service provides the DNS domain that resolves each Pod's stable hostname to its IP, enabling peer discovery and consistent addressing even as Pods move between nodes.

The other options are distractors: "Nodeless," "IPLess," and "Specless" are not Kubernetes Service types. In the core API, the Service "types" are things like ClusterIP, NodePort, LoadBalancer, and ExternalName; "headless" is a behavioral mode achieved through the ClusterIP field.

In short: a headless Service removes the virtual IP abstraction and exposes endpoint-level discovery. It's a deliberate design choice when load-balancing is not desired or when the application itself handles routing, membership, or sharding.

### NEW QUESTION # 78

Which Prometheus metric represents a single value that can go up and down?

- A. Gauge
- B. Summary
- C. Histogram
- D. Counter

**Answer: A**

Explanation:

In Prometheus, a Gauge is the metric type used to represent a value that can increase and decrease over time, so B is correct. Gauges are suited for "current state" measurements such as current memory usage, number of active sessions, queue depth, temperature, or CPU usage—anything that can move up and down as the system changes.

This contrasts with a Counter (A), which is monotonically increasing (it only goes up, except when a process restarts and the counter resets to zero). Counters are ideal for totals like total HTTP requests served, total errors, or bytes sent, and you typically use `rate()/irate()` in PromQL to convert counters into per-second rates.

A Summary (C) and Histogram (D) are used for distributions, commonly request latency. Histograms record observations into buckets and can produce percentiles using functions like `histogram_quantile()`. Summaries compute quantiles on the client side and expose them directly, along with counts and sums. Neither of these is the simplest "single value that goes up and down" type.

In Kubernetes observability, Prometheus is often used to scrape metrics from cluster components (API server, kubelet) and applications. Choosing the right metric type matters operationally: use gauges for instantaneous measurements, counters for event totals, and histograms/summaries for latency distributions. That's why Prometheus documentation and best practices emphasize understanding metric semantics—because misusing types leads to incorrect alerts and dashboards.

So for a single numeric value that can go up and down, the correct metric type is Gauge, option B.

### NEW QUESTION # 79

You are running a multi-cluster Kubernetes environment with Istio deployed. You want to enable mutual TLS authentication between services across different clusters. You have already configured Istio's 'mutualTLS' setting in the control plane. What additional step is required to enforce this security measure for inter-cluster communication?

- A. Deploy a dedicated Istio control plane for each cluster and configure cross-cluster communication
- B. Deploy a dedicated Istio sidecar proxy in each cluster to handle inter-cluster communication
- C. Manually configure the 'istio.io/auth' annotation on all services in both clusters
- D. Configure the 'gateway' setting in Istio to allow only encrypted traffic between clusters
- E. Create a separate Kubernetes namespace for inter-cluster communication and configure Istio within that namespace

**Answer: C**

Explanation:

While configuring 'mutualTLS' in the Istio control plane enables the security feature, you need to explicitly enable it for individual services by applying the 'istio.io/auth' annotation with `peerAuthentication: mutualTLS: { mode: STRICT Y` to each service. This ensures that services in both clusters will only communicate with each other over encrypted channels— Options B, C, D, and E are

not directly related to enforcing mutual TLS authentication for inter-cluster communication.

#### NEW QUESTION # 80

You are setting up a Kubernetes cluster with a large number of pods. You want to optimize the network communication between these pods for high performance and minimal latency. Which Kubernetes networking option would you consider for this scenario?

- A. Flannel
- **B. Calico**
- C. Canal
- D. kube-proxy
- **E. Weave Net**

**Answer: B,E**

Explanation:

Calico and Weave Net are known for their performance and scalability in Kubernetes environments. Calico provides efficient routing and optimized network communication, making it suitable for large-scale deployments. Weave Net is a popular choice for its simplicity, scalability, and performance in handling heavy network traffic. While Flannel and Canal are also Kubernetes networking solutions, they may not be as optimized for large-scale deployments as Calico and Weave Net.

#### NEW QUESTION # 81

You are building a cloud-native application that uses a combination of Kubernetes, Istio, and Prometheus. You want to ensure that your application's logs, metrics, and traces are correlated for easy troubleshooting. What approach would you take to achieve this correlation?

- A. Use a centralized logging system like Fluentd to collect logs from Kubernetes and forward them to Prometheus.
- **B. Integrate Jaeger with Istio and Prometheus using the Istio Mixer to enrich tracing data with metrics and log information.**
- C. Use a custom logging agent to collect logs and forward them to Prometheus.
- D. Use the `*kubectrl logs*` command to retrieve logs from individual pods and manually correlate them with metrics and traces.
- E. Configure Istio to capture logs from pods and forward them to Prometheus.

**Answer: B**

Explanation:

The correct answer is B. Istio's Mixer allows you to integrate Jaeger with Istio and Prometheus. This integration enables you to enrich tracing data with relevant metrics and log information captured from Istio's traffic management capabilities. This approach provides a unified platform for correlating logs, metrics, and traces. The other options are not as effective for achieving correlation: A : This approach focuses only on logs and does not provide a way to link logs to metrics or traces. C : While Istio can capture logs, sending them to Prometheus is not an ideal solution for correlation. D : A centralized logging system like Fluentd can collect logs, but it does not inherently provide mechanisms to correlate them with metrics or traces. E : Manually correlating logs, metrics, and traces using `'kubectrl logs'` is tedious and prone to errors, especially in a dynamic environment like Kubernetes.

#### NEW QUESTION # 82

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