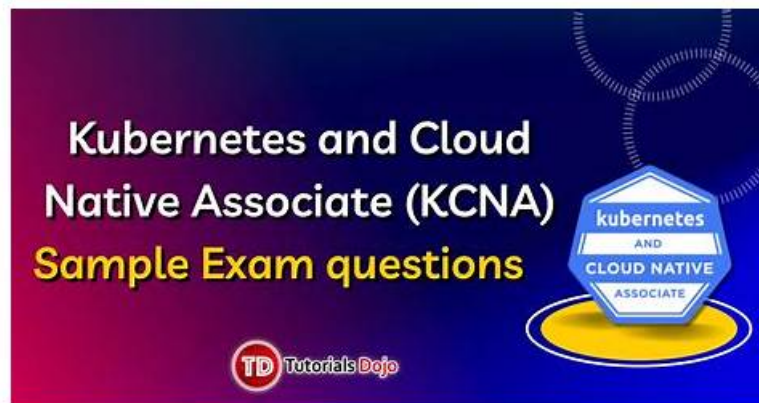


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Linux Foundation Kubernetes and Cloud Native Associate Sample Questions (Q162-Q167):

NEW QUESTION # 162

In Prometheus, what is the purpose of recording rules and how do they differ from alerting rules?

- A. Recording rules define data aggregation and analysis, while alerting rules focus on time-series data visualization.
- B. Recording rules create new time series based on existing metrics, while alerting rules trigger notifications based on metric conditions.
- C. Recording rules are primarily used for troubleshooting, while alerting rules are used for proactive issue detection.
- D. Recording rules and alerting rules are interchangeable and can be used for similar purposes.
- E. Recording rules are used for data storage optimization, while alerting rules are used for system performance monitoring.

Answer: B

Explanation:

Recording rules transform existing time series data into new, calculated metrics. Alerting rules, on the other hand, trigger notifications when certain metric conditions are met. Recording rules are used for data pre-processing, while alerting rules focus on proactive monitoring.

NEW QUESTION # 163

You need to restrict the resources available to pods deployed within a specific namespace. What Kubernetes resource should you use?

- **A. ResourceQuota**
- B. PodSecurityPolicy
- C. NetworkPolicy
- D. ServiceAccount
- E. LimitRange

Answer: A

Explanation:

ResourceQuota is used to restrict the resources available to pods within a namespace. You can set limits on CPU, memory, storage, and other resources to prevent resource exhaustion. LimitRange is used to set minimum and maximum limits for resources that apply to all pods in a namespace, but not to restrict the total resources used. The other options are not relevant to resource restriction: PodSecurityPolicy restricts security settings, NetworkPolicy manages network traffic, and ServiceAccount provides identity and credentials for pods.

NEW QUESTION # 164

Which of the following best describes the concept of 'cold starts' in serverless computing?

- **A. The time it takes for a serverless function to be initialized and ready to execute after a period of inactivity.**
- B. The time required for a serverless function to scale up to handle increased workload.
- C. The latency introduced by network communication between a serverless function and its dependencies.
- D. The time taken for a serverless function to access and process data from a database.
- E. The overhead associated with invoking a serverless function from an external client.

Answer: A

Explanation:

Cold starts refer to the time it takes for a serverless function to be provisioned, loaded into memory, and ready for execution after a period of inactivity. This latency is a characteristic of serverless environments and can affect performance, especially for infrequent function invocations. Options B, C, D, and E describe other factors that can contribute to latency in serverless applications but are not the defining characteristic of cold starts.

NEW QUESTION # 165

What are the two major components of service mesh?

- A. Master plane and User plane
- B. Master plane and Data plane
- **C. Control plane and Data plane**
- D. Controller plane and User plane
- E. None of the options

Answer: C

Explanation:

<https://istio.io/latest/about/service-mesh/>

How it Works

Istio has two components: the data plane and the control plane.



THE
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FOUNDATION
a service mesh the network

communication between services. Without a message being sent over, and can't make any call from or to.

NEW QUESTION # 166

How can you achieve cost optimization in the cloud environment?

- A. Use Bare Metal
- B. Use On Demand instances
- C. Use Spot Instances
- D. Use Reserved Instances

Answer: D

NEW QUESTION # 167

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