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## Linux Foundation Kubernetes and Cloud Native Associate Sample Questions (Q44-Q49):

### NEW QUESTION # 44

Your Kubernetes cluster is experiencing performance issues due to excessive CPU usage by a specific pod. You need to quickly diagnose and resolve the problem. Which tool would be most useful for monitoring and troubleshooting the pod's resource consumption?

- A. kubectl logs
- **B. kubectl top**
- C. kubectl describe
- D. kubectl exec
- E. kubectl port-forward

**Answer: B**

Explanation:

The `*kubectl top` command provides real-time resource usage statistics for pods, including CPU and memory consumption. It allows you to quickly identify pods that are using excessive resources and pinpoint the cause of the performance bottleneck. This makes it an effective tool for troubleshooting performance problems.

#### NEW QUESTION # 45

You are building a distributed system with microservices deployed in a Kubernetes cluster. Each microservice has its own database. How would you manage the consistency and reliability of data across these microservices?

- A. Use a message broker to ensure data synchronization
- B. Use a shared database for all microservices
- C. Implement a distributed database system
- D. Implement a distributed transaction manager
- E. Use a combination of event sourcing and CQRS (Command Query Responsibility Segregation)

**Answer: A,C,D,E**

Explanation:

Managing data consistency and reliability in a distributed system with microservices is a complex challenge- There are various approaches to achieve this, including: Distributed Database System: Using a distributed database system like Cassandra or MongoDB allows for data replication and fault tolerance across different nodes. This ensures data availability and consistency. Message Broker A message broker can facilitate data synchronization between microservices- Messages are used to communicate data changes and ensure that all services are aware of the latest state. Distributed Transaction Manager: A distributed transaction manager ensures that multiple transactions across different microservices are completed as a single atomic operation. This helps maintain data consistency and integrity. Event Sourcing and CQRS: Event sourcing involves storing a sequence of events that represent changes to the system. CQRS (Command Query Responsibility Segregation) separates commands (which modify data) from queries (which retrieve data). This approach can help manage data consistency and provide a more robust architecture. The best approach depends on the specific requirements of your application, such as data consistency levels, performance needs, and scalability requirements.

#### NEW QUESTION # 46

What is the main difference between Argo vs. Flux CD?

- A. Argo is pull-based, and Flux is push-based
- B. No difference; both are push-based
- C. No difference; both are pull-based
- D. Argo is push-based, and Flux is pull-based

**Answer: D**

Explanation:

ArgoCD: <https://argo-cd.readthedocs.io/en/stable/developer-guide/ci/#can-i-retrigger-the-checks-without-pushing-a-new-commit>

FluxCD: <https://fluxcd.io/>

#### NEW QUESTION # 47

Which of the following scenarios would benefit the most from a service mesh architecture?

- A. Thousands of distributed applications running in multiple clusters, each one providing multiple services.
- B. A few applications with hundreds of Pod replicas running in multiple clusters, each one providing multiple services.
- C. Tens of distributed applications running in multiple clusters, each one providing multiple services.
- D. Thousands of distributed applications running in a single cluster, each one providing multiple services.

**Answer: A**

Explanation:

A service mesh is most valuable when service-to-service communication becomes complex at large scale-many services, many teams, and often multiple clusters. That's why D is the best fit: thousands of distributed applications across multiple clusters. In that scenario, the operational burden of securing, observing, and controlling east-west traffic grows dramatically. A service mesh (e.g., Istio, Linkerd) addresses this by introducing a dedicated networking layer (usually sidecar proxies such as Envoy) that standardizes

capabilities across services without requiring each application to implement them consistently.

The common "mesh" value-adds are: mTLS for service identity and encryption, fine-grained traffic policy (retries, timeouts, circuit breaking), traffic shifting (canary, mirroring), and consistent telemetry (metrics, traces, access logs). Those features become increasingly beneficial as the number of services and cross-service calls rises, and as you add multi-cluster routing, failover, and policy management across environments. With thousands of applications, inconsistent libraries and configurations become a reliability and security risk; the mesh centralizes and standardizes these behaviors.

In smaller environments (A or C), you can often meet requirements with simpler approaches: Kubernetes Services, Ingress/Gateway, basic mTLS at the edge, and application-level libraries. A single large cluster (B) can still benefit from a mesh, but adding multiple clusters increases complexity: traffic management across clusters, identity trust domains, global observability correlation, and consistent policy enforcement. That's where mesh architectures typically justify their additional overhead (extra proxies, control plane components, operational complexity).

So, the "most benefit" scenario is the largest, most distributed footprint-D.

#### NEW QUESTION # 48

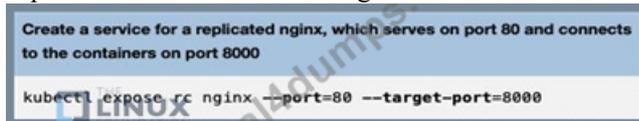
Which command is used to expose Kubernetes service

- A. kubectl run
- B. kubectl expose
- C. kubectl create

**Answer: B**

Explanation:

<https://kubernetes.io/docs/reference/generated/kubectl/kubectl-commands#expose>



#### NEW QUESTION # 49

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