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## Training KCNA For Exam & KCNA Exam Answers

The TestInsides is one of the top-rated and trusted platforms that are committed to making the Kubernetes and Cloud Native Associate (KCNA) certification exam journey successful. To achieve this objective TestInsides has hired a team of experienced and qualified Linux Foundation KCNA Exam trainers. They work together and put all their expertise to maintain the top standard of Kubernetes and Cloud Native Associate (KCNA) practice test all the time.

## Linux Foundation Kubernetes and Cloud Native Associate Sample Questions (Q73-Q78):

### NEW QUESTION # 73

What is scheduling in Kubernetes

- **A. Assigning pods to nodes**
- B. Setting a time for automated tasks
- C. Determining when to execute a cron-job
- D. Joining a new nodes to the clusters

**Answer: A**

Explanation:

<https://kubernetes.io/docs/concepts/scheduling-eviction/>

# Scheduling

- Kubernetes Scheduler
- Assigning Pods to Nodes
- Pod Overhead
- Taints and Tolerations
- Scheduling Framework
- Scheduler Performance Tuning
- Resource Bin Packing for Extended Resources



## NEW QUESTION # 74

Consider the following scenario: You are using GitOps with ArgoCD to manage a deployment in your Kubernetes cluster. You modify a configuration file in your Git repository, but the change is not reflected in the cluster. What are the possible reasons for this issue?

- A. The ArgoCD server is not running or is not properly configured.
- B. The deployment configuration in the Git repository is invalid or does not match the desired state.
- C. The Kubernetes cluster is not accessible by ArgoCD
- D. The ArgoCD application is not properly configured to watch the specific Git repository for changes.
- E. The Git repository is not accessible by ArgoCD.

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

Explanation:

All of the listed options could potentially cause a change in the Git repository not to be reflected in the cluster. A: ArgoCD must be running and configured correctly to monitor the repository for changes. B: ArgoCD needs access to the repository to fetch the configuration. C: An invalid or incorrect configuration in the repository would prevent ArgoCD from applying the desired changes. D: ArgoCD must be able to communicate with the Kubernetes cluster to apply the configuration. E: The specific application in ArgoCD needs to be configured to monitor the correct repository and namespace. Identifying the specific issue requires troubleshooting the configuration and the system's connectivity.

## NEW QUESTION # 75

You're deploying a microservices application in a Kubernetes cluster. How can you use Jaeger for distributed tracing to troubleshoot a performance issue within the application?

- A. Deploy Jaeger as a sidecar container within each pod.
- B. Use Jaeger's IJI to visualize the tracing data and analyze request flow across different services.
- C. Instrument your application code to emit tracing data.
- D. Create a custom Prometheus exporter that integrates with Jaeger.
- E. Configure a dedicated Jaeger deployment and configure your application to send tracing data to it.

**Answer: B,C,E**

Explanation:

The correct answers are B, D, and E. To effectively use Jaeger for distributed tracing, you need to perform these steps: B:

Instrument your application code to emit tracing data. Jaeger integrates with application code to track requests across services. It's common to use libraries like OpenTelemetry or Jaeger's client libraries to inject tracing data into your application's code. D: Configure a dedicated Jaeger deployment and configure your application to send tracing data to it. Jaeger needs its own deployment to collect and process the tracing data. You need to set up a Jaeger instance within your Kubernetes cluster and configure your application to send its tracing data to this instance. E: Use Jaeger's UI to visualize the tracing data and analyze request flow across different services. Once the tracing data is collected, Jaeger provides a user interface to visualize the flow of requests across your microservices, identify bottlenecks, and analyze performance issues. The Jaeger UI allows you to drill down into individual traces, view the spans within a trace, and gain insights into latency, errors, and dependencies between services.

#### NEW QUESTION # 76

What is the difference between a Service and an Ingress in Kubernetes?

- A. Services provide external access to your application, while Ingress provides internal access.
- B. Services manage the lifecycle of Pods, while Ingress manages the lifecycle of Deployments.
- C. Services are used for scheduling Pods to nodes, while Ingress is used for managing the communication between Pods and services.
- **D. Services expose applications running within the cluster, while Ingress provides routing and load balancing for external traffic.**
- E. Services are used for managing the state of Pods, while Ingress is used for managing the health of Pods.

**Answer: D**

Explanation:

In Kubernetes Services provide a way to expose applications running within the cluster, while Ingress provides a mechanism for routing and load balancing external traffic to your applications. Services are used to make Pods accessible within the cluster, while Ingress enables users outside the cluster to access your applications.

#### NEW QUESTION # 77

You're building a new cloud-native application using gRPC for communication between microservices. You want to use Jaeger for distributed tracing to track the flow of requests through your microservices. What should you do to integrate Jaeger with your gRPC application?

- A. Modify your gRPC client and server code to explicitly log trace information using Jaeger's logging libraries.
- **B. Use Jaeger's built-in support for gRPC tracing, which automatically intercepts gRPC calls and sends data to Jaeger.**
- C. Use a dedicated tracing proxy that sits between your gRPC services and intercepts traffic to send tracing data to Jaeger.
- **D. Configure Istio to automatically inject tracing into gRPC calls and send the data to Jaeger.**
- E. Configure a custom gRPC interceptor to intercept gRPC calls and emit tracing data to Jaeger.

**Answer: B,D**

Explanation:

The correct answers are B and D. Jaeger provides built-in support for tracing gRPC applications, and Istio can also be used to automatically inject tracing into gRPC calls. B: Use Jaeger's built-in support for gRPC tracing, which automatically intercepts gRPC calls and sends data to Jaeger. Jaeger offers libraries and integration points for popular frameworks like gRPC. Using Jaeger's gRPC tracing capabilities, you can automatically instrument your gRPC applications and capture tracing data without needing to manually modify your code extensively. D: Configure Istio to automatically inject tracing into gRPC calls and send the data to Jaeger. Istio, a service mesh, offers automatic tracing capabilities for gRPC applications. By configuring Istio, you can enable tracing for gRPC calls and send tracing data to Jaeger streamlining the tracing process and reducing code modifications within our services. The other options are incorrect or less efficient: A: Configure a custom gRPC interceptor to intercept gRPC calls and emit tracing data to Jaeger. While you can create a custom interceptor, Jaeger's built-in support and Istio's automatic tracing mechanisms are more convenient and often preferred for gRPC tracing. C: Modify your gRPC client and server code to explicitly log trace information using Jaeger's logging libraries. Manual code modifications are less efficient compared to using Jaeger's built-in support or Istio's automatic tracing. E: Use a dedicated tracing proxy that sits between your gRPC services and intercepts traffic to send tracing data to Jaeger. While a tracing proxy could work, it adds an extra layer of complexity and potential performance overhead compared to built-in support or Istio's integration.

#### NEW QUESTION # 78

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