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Linux Foundation Kubernetes and Cloud Native Associate Sample Questions (Q156-Q161):

NEW QUESTION # 156

You have a CI/CD pipeline that builds and deploys a new version of your application to Kubernetes. After deployment, you notice performance issues and need to roll back to the previous version. Which of the following strategies can be used to achieve a smooth rollback?

- A. Edit the Deployment configuration to change the container image to the previous version.
- B. Redeploy the previous version of the application manually.
- C. Use Kubernetes Deployments with rollback capabilities to revert to a previous deployment revision.

- D. Use a canary deployment strategy to gradually roll back the traffic.
- E. Manually delete the new pods and restart the old pods.

Answer: C

Explanation:

Kubernetes Deployments track historical revisions. By leveraging rollback capabilities within Deployments, you can easily revert to a previous successful deployment revision, ensuring a smooth transition without manual intervention.

NEW QUESTION # 157

Your application requires specific network configurations for its pods, including custom DNS settings and network namespaces. How can you achieve this in Kubernetes?

- A. Use a DaemonSet to deploy a network configuration agent on each node.
- B. Use a NetworkPolicy to define custom network rules for the pods.
- **C. Create a custom network plugin and integrate it with Kubernetes-**
- D. Configure a Pod's security context with specific network settings.
- E. Modify the Kubernetes API server's network configuration settings.

Answer: C

Explanation:

The correct answer is 'Create a custom network plugin and integrate it with Kubernetes'. Kubernetes allows you to extend its networking functionality by developing and integrating custom network plugins. These plugins can provide advanced network configurations, including custom DNS settings, network namespaces, and other specific network requirements. Options A, B, C, and E are not suitable for this scenario. 'NetworkPolicy' is used for network access control, 'Pod security context' defines security settings for a pod, 'DaemonSet' is used for deploying agents on nodes, and modifying the API server's network settings can affect the entire cluster's network configuration.

NEW QUESTION # 158

You are running a multi-cluster Kubernetes environment with Istio deployed. You need to ensure that communication between services across different clusters is secure and encrypted. What Istio configuration would you use to achieve this?

- A. Use the 'peerAuthentication' setting in the 'istio.io/auth' annotation on services
- **B. Enable 'Mutual TLS' authentication for all services in the Istio configuration**
- C. Use the 'ingress' and 'egress' settings in the 'istio.io/gateway' configuration
- D. Configure the 'mtls' setting to 'STRICT' in the Istio control plane
- E. Deploy a dedicated Istio control plane for each cluster and configure cross-cluster communication

Answer: B

Explanation:

To secure inter-cluster communication with Istio, you need to enable Mutual TLS (mTLS) authentication. This ensures that all communication between services, even across different clusters, is encrypted and verified. Options A and B are partially correct but don't cover the full scope of inter-cluster security. Option C is not recommended as it creates complexity in managing multiple control planes. Option E is used for managing ingress and egress traffic but doesn't directly address inter-cluster security.

NEW QUESTION # 159

What is the purpose of the 'kube-proxy' component in Kubernetes and how does it contribute to the networking model?

- **A. kube-proxy acts as a network load balancer for Kubernetes services, distributing traffic among pods.**
- B. kube-proxy implements the Kubernetes DNS service, resolving hostnames to IP addresses for pods within the cluster.
- C. kube-proxy enables communication between pods within the same namespace, ensuring they can access each others services.
- D. kube-proxy provides network security features by enforcing network policies and firewall rules.
- E. kube-proxy is responsible for managing network connectivity between pods and external services.

Answer: A

Explanation:

kube-proxy is a critical component in Kubernetes' networking model. Its primary role is to act as a network load balancer for Kubernetes services. It listens on the node's IP address and forwards traffic to the corresponding pods based on service rules. This allows for load balancing, service discovery and efficient communication between pods and external clients. Options A, C, D, and E are incorrect. While kube-proxy contributes to external connectivity its core responsibility is internal load balancing. Communication within a namespace relies on the pod network, not kube-proxy. DNS resolution is handled by CoreDNS in Kubernetes, not kube-proxy. Security features like NetworkPolicies are implemented separately.

NEW QUESTION # 160

The three typical opentelemetry data is?

- A. Traces
- **B. All of the options**
- C. Logs
- D. Metrics

Answer: B

Explanation:

<https://opentelemetry.io/docs/concepts/data-sources/>

What is OpenTelemetry?

OpenTelemetry is a set of APIs, SDKs, tooling and integrations that are designed for the creation and management of *telemetry data* such as traces, metrics, and logs. The project provides a vendor-agnostic implementation that can be configured to send telemetry data to the backend(s) of your choice. It supports a variety of popular open-source projects including Jaeger and Prometheus.

NEW QUESTION # 161

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The Kubernetes and Cloud Native Associate certification exam is a valuable asset for beginners and seasonal professionals. If you want to improve your career prospects then KCNA certification is a step in the right direction. Whether you're just starting your career or looking to advance your career, the KCNA Certification Exam is the right choice. With the KCNA certification you can gain a range of career benefits which include credibility, marketability, validation of skills, and access to new job opportunities.

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