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Linux Foundation Kubernetes and Cloud Native Associate Sample Questions (Q75-Q80):

NEW QUESTION # 75

You need to restrict access to your Kubernetes cluster from a specific IP address range. How would you implement this security measure?

- A. Use kubectl to modify the Kubernetes API server's authorization settings.
- B. Create a custom Admission Controller to filter requests based on the source IP
- C. Configure firewall rules on the Kubernetes nodes to block traffic from unauthorized IP ranges.
- D. Use a Service of type 'LoadBalancer' with a specific IP address to restrict access.
- E. **Configure a NetworkPolicy to allow traffic only from the specified IP range.**

Answer: E

Explanation:

The most appropriate way to restrict access to a Kubernetes cluster from a specific IP address range is to configure a NetworkPolicy. NetworkPolicies allow you to define ingress and egress rules based on source and destination IP addresses, ports, and other network attributes. This provides a flexible and granular way to control network traffic to and from pods within the cluster. Options B, C, and D are not suitable for this scenario as they focus on API server authorization, admission control, or node-level firewall rules, which are not specifically designed for IP address-based access control. Option E is incorrect because Service of type 'LoadBalancer' primarily deals with external access and doesn't provide direct IP address-based access control within the cluster.

NEW QUESTION # 76

What is the purpose of the 'nodeSelector' field in a Pod's YAML definition?

- A. To specify the exact number of replicas for the pod.
- B. To define the pod's image pull policy (Always, IfNotPresent, Never).
- C. To specify the pod's termination grace period.
- D. To define the pod's restart policy (Always, OnFailure, Never).
- E. To restrict the pod's scheduling to nodes with specific labels.

Answer: E

Explanation:

The `nodeSelectors` field allows you to specify labels that the node must have in order for the pod to be scheduled on it. This provides a way to control where pods are placed based on node characteristics or roles.

NEW QUESTION # 77

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

- A. ResourceQuota
- B. NetworkPolicy
- C. ServiceAccount
- D. PodSecurityPolicy
- 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 # 78

Consider the following Kubernetes YAML configuration for a Deployment:

```

apiVersion: apps/v1
kind: Deployment
metadata:
  name: nginx-deployment
spec:
  replicas: 3
  selector:
    matchLabels:
      app: nginx
  template:
    metadata:
      labels:
        app: nginx
spec:
  containers:
    - name: nginx
      image: nginx:1.14.2
      ports:
        - containerPort: 80

```

What is the purpose of the 'replicas' field in this configuration, and how does it affect the Deployment? The 'replicas' field specifies the number of Pods that should be created and maintained by the Deployment. It controls the desired number of running instances of the application.

- A. The 'replicas' field specifies the number of nodes in the Kubernetes cluster. It determines the number of Pods that can be scheduled
- B. The 'replicas' field specifies the initial number of Pods that should be created when the Deployment is deployed. It does not affect the number of Pods that are running after the initial deployment.
- C. The 'replicas' field specifies the maximum number of Pods that can be created by the Deployment. It limits the amount of resources that the application can consume.
- D. The 'replicas' field defines the minimum number of Pods that should be available at all times. It ensures that the application remains available even if some Pods fail.

Answer: D

Explanation:

The 'replicas' field in a Deployment specifies the number of Pods that should be created and maintained by the Deployment. It controls the desired number of running instances of the application. If a Pod fails, the Deployment will automatically create a new Pod to replace it, ensuring that the desired number of replicas is maintained.

NEW QUESTION # 79

Which role is responsible of creating service level indicator 'SLI', service level objective 'SLO', & Service Level Agreements 'SLA'

- A. GitOps
- B. Site reliability engineer 'SRE'
- C. Security and compliance engineer
- D. DevOps
- E. Developer

Answer: B

Explanation:

<https://www.atlassian.com/incident-management/kpis/sla-vs-slo-vs-sli>

How does this impact SREs?

For those of you following Google's model and using [Site Reliability Engineering \(SRE\) teams](#) to bridge the gap between development and operations, SLAs, SLOs, and SLIs are foundational to success. SLAs help teams set boundaries and error budgets. SLOs help prioritize work. And SLIs tell SREs when they need to freeze all launches to save an endangered error budget—and when they can loosen up the reins.

NEW QUESTION # 80

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