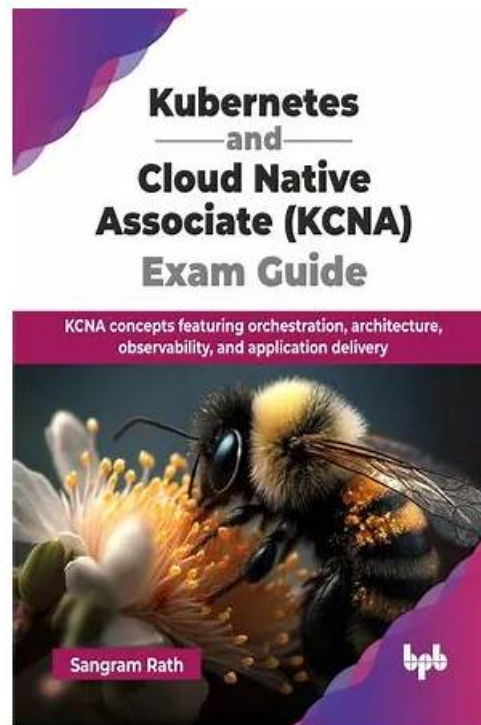


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Linux Foundation Kubernetes and Cloud Native Associate Sample Questions (Q104-Q109):

NEW QUESTION # 104

What service account does a Pod use in a given namespace when the service account is not specified?

- A. root
- B. admin
- **C. default**
- D. sysadmin

Answer: C

Explanation:

D (default) is correct. In Kubernetes, if you create a Pod (or a controller creates Pods) without specifying `spec.serviceAccountName`, Kubernetes assigns the Pod the default ServiceAccount in that namespace. The ServiceAccount determines what identity the Pod uses when accessing the Kubernetes API (for example, via the in-cluster token mounted into the Pod, when token automounting is enabled).

Every namespace typically has a default ServiceAccount created automatically. The permissions associated with that ServiceAccount are determined by RBAC bindings. In many clusters, the default ServiceAccount has minimal permissions (or none) as a security best practice, because leaving it overly privileged would allow any Pod to access sensitive cluster APIs.

Why the other options are wrong: Kubernetes does not automatically choose "admin," "sysadmin," or "root" service accounts. Those are not standard implicit identities, and automatically granting admin privileges would be insecure. Instead, Kubernetes follows a predictable, least-privilege-friendly default: use the namespace's default ServiceAccount unless you explicitly request a different one. Operationally, this matters for security and troubleshooting. If an application in a Pod is failing with "forbidden" errors when calling the API, it often means it's using the default ServiceAccount without the necessary RBAC permissions. The correct fix is usually to create a dedicated ServiceAccount and bind only the required roles, then set `serviceAccountName` in the Pod template. Conversely, if you're hardening a cluster, you often disable automounting of service account tokens for Pods that don't need API access.

Therefore, the verified correct answer is D: default.

NEW QUESTION # 105

You have a Kubernetes cluster with a custom network plugin that provides advanced networking capabilities. What needs to be considered when configuring this custom network plugin?

- **A. Test the plugin thoroughly with your applications to ensure compatibility and performance.**
- **B. Ensure that the custom plugin adheres to the Kubernetes CNI (Container Network Interface) specification.**
- **C. Configure the plugin to support Kubernetes service discovery and load balancing.**
- **D. Integrate the plugin with the Kubernetes API server to manage network resources.**
- **E. Deploy the plugin as a DaemonSet on each Kubernetes node.**

Answer: A,B,C,D,E

Explanation:

All of the options are important considerations when configuring a custom network plugin in Kubernetes- - A Adherence to the CNI specification ensures interoperability with Kubernetes and other CNI plugins- - B: Support for service discovery and load balancing is crucial for seamless integration with Kubernetes services. - C: Integration with the Kubernetes API server allows the plugin to be managed and controlled by Kubernetes- - D Deploying the plugin as a DaemonSet ensures its availability and consistent behavior across all nodes. - E Thorough testing is essential to guarantee compatibility with your applications and the desired performance characteristics.

NEW QUESTION # 106

You're running a microservices application in Kubernetes, and you're concerned about the cost associated with resource usage. Which of the following approaches is most effective for reducing cost without impacting performance?

- A. Implement a distributed tracing system to monitor the resource consumption of individual microservices and identify areas for optimization.
- B. Utilize serverless functions to replace all microservices, as they scale automatically and only consume resources when active.
- C. Configure resource quotas for each namespace containing microservices to restrict their resource usage.
- D. Use a horizontal pod autoscaler (HPA) to scale each microservice independently based on its specific resource needs.
- E. Design your microservices to be stateless and idempotent, allowing them to be easily scaled and restarted without affecting application state.

Answer: A,D,E

Explanation:

Cost optimization for microservices involves understanding resource consumption and ensuring efficient scaling. Distributed tracing helps pinpoint resource-intensive microservices for optimization. HPA allows individual microservices to scale independently, ensuring optimal resource utilization. Designing microservices to be stateless and idempotent simplifies scaling and restarts, reducing potential resource waste. While serverless functions offer scaling benefits, they might not be suitable for all microservices. Resource quotas can restrict usage but don't address dynamic scaling needs.

NEW QUESTION # 107

You are running a stateless application on Kubernetes and want to avoid persistent storage. Which of the following options is suitable?

- A. Create a Local Persistent Volume for each pod.
- B. Use an emptyDir volume to create a temporary directory within the pod.
- C. Utilize a ConfigMap to store application configuration data.
- D. Mount a HostPath volume to access the host machine's filesystem.
- E. Use a PersistentVolumeClaim with a storage class that provides persistent storage.

Answer: B

Explanation:

For stateless applications, an emptyDir volume is the most suitable choice as it provides a temporary directory within the pod, which is discarded when the pod is terminated. PersistentVolumeClaim, HostPath volumes, and Local Persistent Volumes are designed for persistent storage, unsuitable for stateless applications. ConfigMaps store application configuration data, not application data itself.

NEW QUESTION # 108

What component enables end users, different parts of the Kubernetes cluster, and external components to communicate with one another?

- A. AWS Management Console
- B. Kubernetes API
- C. Google Cloud SDK
- D. kubectl

Answer: B

Explanation:

The Kubernetes API is the central interface that enables communication between users, controllers, nodes, and external integrations, so C is correct. Kubernetes is fundamentally an API-driven system: all cluster state is represented as API objects, and all operations-create, update, delete, watch-flow through the API server.

End users typically interact with the Kubernetes API using tools like kubectl, client libraries, or dashboards. But those tools are clients; the shared communication "hub" is the API itself. Inside the cluster, core control plane components (controllers, scheduler) continuously watch the API for desired state and write status updates back. Worker nodes (via kubelet) also communicate with the API server to receive Pod specs, report node health, and update Pod statuses. External systems-cloud provider integrations, CI/CD pipelines, GitOps controllers, monitoring and policy engines-also integrate primarily through the Kubernetes API.

Option A (kubectl) is a CLI that talks to the Kubernetes API; it is not the underlying component that all parts use to communicate. Options B and D are cloud-provider tools and are not universal to Kubernetes clusters. Kubernetes runs across many environments, and the consistent interoperability layer is the Kubernetes API.

This API-centric architecture is what enables Kubernetes' declarative model: you submit desired state to the API, and controllers reconcile actual state to match. It also enables extensibility: CRDs and admission webhooks expand what the API can represent and enforce. Therefore, the correct answer is C: Kubernetes API.

NEW QUESTION # 109

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