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The Linux Foundation KCNA Exam is designed to assess the candidate's proficiency in various areas of cloud-native computing, including containerization, orchestration, security, networking, and storage. KCNA exam is vendor-neutral, which means that it is not specific to any particular cloud provider or platform. This makes it an excellent choice for professionals who want to demonstrate their expertise in cloud-native computing without being tied to a specific vendor or platform.

Linux Foundation Kubernetes and Cloud Native Associate Sample Questions (Q159-Q164):

NEW QUESTION # 159

Which tool is built on the GitOps toolkit?

- A. GitHub Workflow & Actions
- B. ArgoCD

- C. Jenkins-X
- D. Travis CI
- E. Jenkins
- **F. Flux**

Answer: F

Explanation:

<https://fluxcd.io/#gitops-toolkit>



Note: Argo CD is a GitOps tool and not using GitOps toolkit

NEW QUESTION # 160

In a Kubernetes environment, how is an Argo CD ApplicationSet configured to ensure continuous deployment of an application?

- A. By using a Helm chart to package the application and deploying it directly without GitOps.
- B. By defining the ApplicationSet containing deployment parameters and applying it with kubectl.
- **C. By defining the ApplicationSet in a YAML file and linking it to a Git repository containing application manifests.**
- D. By manually deploying the application using kubectl commands every time changes are made.

Answer: C

Explanation:

An Argo CD ApplicationSet is defined declaratively and connected to a Git repository that contains the application manifests. Argo CD continuously monitors the repository and automatically syncs the cluster state with the desired state defined in Git, enabling continuous deployment.

NEW QUESTION # 161

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

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

Answer: A

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 # 162

What framework does Kubernetes use to authenticate users with JSON Web Tokens?

- A. OpenID Cluster
- **B. OpenID Connect**

- C. OpenID Container
- D. OpenID CNCF

Answer: B

Explanation:

Kubernetes commonly authenticates users using OpenID Connect (OIDC) when JSON Web Tokens (JWTs) are involved, so A is correct. OIDC is an identity layer on top of OAuth 2.0 that standardizes how clients obtain identity information and how JWTs are issued and validated.

In Kubernetes, authentication happens at the API server. When OIDC is configured, the API server validates incoming bearer tokens (JWTs) by checking token signature and claims against the configured OIDC issuer and client settings. Kubernetes can use OIDC claims (such as sub, email, groups) to map the authenticated identity to Kubernetes RBAC subjects. This is how enterprises integrate clusters with identity providers such as Okta, Dex, Azure AD, or other OIDC-compliant IdPs.

Options B, C, and D are fabricated phrases and not real frameworks. Kubernetes documentation explicitly references OIDC as a supported method for token-based user authentication (alongside client certificates, bearer tokens, static token files, and webhook authentication). The key point is that Kubernetes does not

"invent" JWT auth; it integrates with standard identity providers through OIDC so clusters can participate in centralized SSO and group-based authorization.

Operationally, OIDC authentication is typically paired with:

- * RBAC for authorization ("what you can do")
- * Audit logging for traceability
- * Short-lived tokens and rotation practices for security
- * Group claim mapping to simplify permission management

So, the verified framework Kubernetes uses with JWTs for user authentication is OpenID Connect.

NEW QUESTION # 163

You are deploying a microservices application with several independent services that need to communicate with each other. What is the most suitable way to configure networking between these services in Kubernetes?

- A. Use a separate Service of type 'ClusterIP' for each service to isolate their communication.
- B. Use a Service of type 'NodePort' for each service to expose them on the node's IP address.
- C. Use host networking for all services so that they share the same network namespace.
- D. Use a combination of Services and Ingress resources to manage network traffic between services and external access.
- E. Use a single Service of type 'ClusterIP' for all services to share a common endpoint.

Answer: A

Explanation:

The most suitable way to configure networking between independent services in Kubernetes is to use a separate Service of type 'ClusterIP' for each service. This allows for isolated communication between services and avoids conflicts or unexpected interactions.

Option A is incorrect because using host networking can lead to security risks and complexities in managing network resources.

Option B is incorrect because using a single Service for all services doesn't allow for independent access or scaling of individual services.

Option D is incorrect because using 'NodePort' exposes services to the node's IP address, which is not necessary for internal communication. Option E is correct for managing external access and ingress but not for internal communication between services.

NEW QUESTION # 164

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