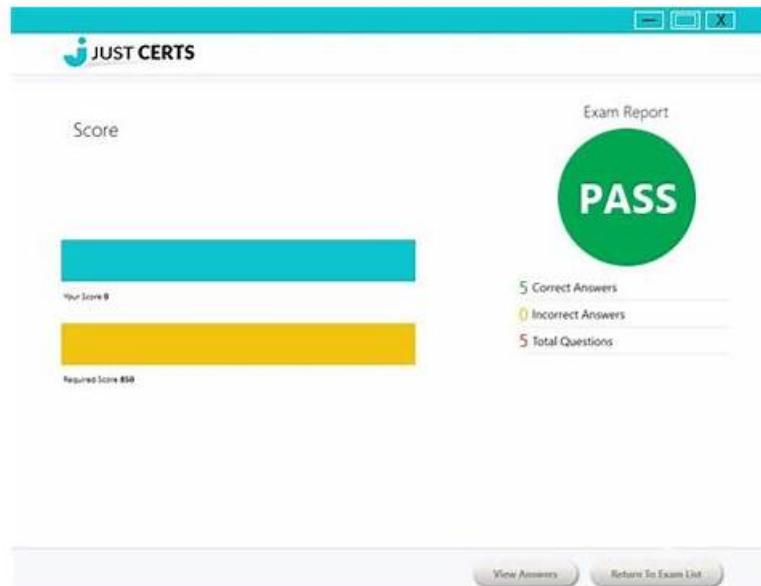


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## Linux Foundation Kubernetes and Cloud Native Security Associate Sample Questions (Q43-Q48):

### NEW QUESTION # 43

In a Kubernetes environment, what kind of Admission Controller can modify resource manifests when applied to the Kubernetes API to fix misconfigurations automatically?

- A. ValidatingAdmissionController
- **B. MutatingAdmissionController**
- C. ResourceQuota
- D. PodSecurityPolicy

**Answer: B**

Explanation:

- \* Kubernetes Admission Controllers can either validate or mutate incoming requests.
- \* **MutatingAdmissionWebhook** (Mutating Admission Controller):
  - \* Can modify or mutate resource manifests before they are persisted in etcd.
  - \* Used for automatic injection of sidecars (e.g., Istio Envoy proxy), setting default values, or fixing misconfigurations.
  - \* **ValidatingAdmissionWebhook** (Validating Admission Controller): only allows/denies but does not change requests.
  - \* **PodSecurityPolicy**: deprecated; cannot mutate requests.
  - \* **ResourceQuota**: enforces resource usage, but does not mutate manifests.

Exact Extract:

\* "Mutating admission webhooks are invoked first, and can modify objects to enforce defaults.

Validating admission webhooks are invoked second, and can reject requests to enforce invariants.

"

References:

Kubernetes Docs - Admission Controllers: <https://kubernetes.io/docs/reference/access-authn-authz/admission-controllers/>

Kubernetes Docs - Admission Webhooks: <https://kubernetes.io/docs/reference/access-authn-authz/extensible-admission-controllers/>

## NEW QUESTION # 44

In Kubernetes, what is Public Key Infrastructure (PKI) used for?

- A. To automate the scaling of containers in a Kubernetes cluster.
- B. To monitor and analyze performance metrics of a Kubernetes cluster.
- **C. To manage certificates and ensure secure communication in a Kubernetes cluster.**
- D. To manage networking in a Kubernetes cluster.

Answer: C

Explanation:

\* Kubernetes uses PKI certificates extensively to secure communication between control plane components (API server, etcd, kube-scheduler, kube-controller-manager) and with kubelets.

\* Certificates enable mutual TLS authentication and encryption across components.

\* PKI does not handle scaling, networking, or monitoring.

References:

Kubernetes Documentation - Certificates

CNCF Security Whitepaper - Cluster communication security and the role of PKI.

## NEW QUESTION # 45

What was the name of the precursor to Pod Security Standards?

- A. Container Runtime Security
- **B. Pod Security Policy**
- C. Container Security Standards
- D. Kubernetes Security Context

Answer: B

Explanation:

\* Kubernetes originally had a feature called PodSecurityPolicy (PSP), which provided controls to restrict pod behavior.

\* Official docs:

\* "PodSecurityPolicy was deprecated in Kubernetes v1.21 and removed in v1.25."

\* "Pod Security Standards (PSS) replace PodSecurityPolicy (PSP) with a simpler, policy-driven approach."

\* PSP was often complex and hard to manage, so it was replaced by Pod Security Admission (PSA) which enforces Pod Security Standards.

References:

Kubernetes Docs - PodSecurityPolicy (deprecated): <https://kubernetes.io/docs/concepts/security/pod-security-policy/> Kubernetes Blog - PodSecurityPolicy Deprecation: <https://kubernetes.io/blog/2021/04/06/podsecuritypolicy-deprecation-past-present-and-future/>

## NEW QUESTION # 46

To restrict the kubelet's rights to the Kubernetes API, what authorization mode should be set on the Kubernetes API server?

- A. Node
- B. AlwaysAllow
- C. Webhook
- D. kubelet

**Answer: A**

Explanation:

- \* The Node authorization mode is designed to specifically limit what kubelets can do when they connect to the Kubernetes API server.
- \* It authorizes requests from kubelets based on the Pods scheduled to run on their nodes, ensuring kubelets cannot interact with resources beyond their scope.
- \* Incorrect options:
  - \* (B) AlwaysAllow allows unrestricted access (insecure).
  - \* (C) No kubelet authorization mode exists.
  - \* (D) Webhook mode delegates authorization decisions to an external service, not specifically for kubelets.

References:

Kubernetes Documentation - Node Authorization

CNCF Security Whitepaper - Access control: kubelet authorization and Node authorizer.

## NEW QUESTION # 47

In which order are the validating and mutating admission controllers run while the Kubernetes API server processes a request?

- A. The order of execution varies and is determined by the cluster configuration.
- B. Validating and mutating admission controllers run simultaneously.
- C. **Mutating admission controllers run before validating admission controllers.**
- D. Validating admission controllers run before mutating admission controllers.

**Answer: C**

Explanation:

- \* The admission control flow in Kubernetes:
- \* Mutating admission controllers run first and can modify incoming requests.
- \* Validating admission controllers run after mutations to ensure the final object complies with policies.
- \* This ensures policies validate the final, mutated object.

References:

Kubernetes Documentation - Admission Controllers

CNCF Security Whitepaper - Admission control workflow.

## NEW QUESTION # 48

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