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## Linux Foundation Kubernetes and Cloud Native Security Associate Sample

## Questions (Q31-Q36):

### NEW QUESTION # 31

A user runs a command with kubectl to apply a change to a deployment. What is the first Kubernetes component that the request reaches?

- A. kubelet
- B. Kubernetes Controller Manager
- **C. Kubernetes API Server**
- D. Kubernetes Scheduler

**Answer: C**

Explanation:

- \* All kubectl requests go to the Kubernetes API Server.
- \* The API server is the front-end of the control plane and validates/authenticates requests before other components act.
- \* Exact extract (Kubernetes Docs - Components):
- \* "The API server is a component of the Kubernetes control plane that exposes the Kubernetes API. It is the front end for the Kubernetes control plane."
- \* Other options clarified:
- \* Controller Manager: reconciles state after API Server processes the request.
- \* Scheduler: assigns Pods to nodes after API Server accepts workload objects.
- \* kubelet: node agent, only communicates after API Server updates desired state.

References:

Kubernetes Docs - Components: <https://kubernetes.io/docs/concepts/overview/components/>

### NEW QUESTION # 32

What is the purpose of the Supplier Assessments and Reviews control in the NIST 800-53 Rev. 5 set of controls for Supply Chain Risk Management?

- **A. To evaluate and monitor existing suppliers for adherence to security requirements.**
- B. To conduct regular audits of suppliers' financial performance.
- C. To establish contractual agreements with suppliers.
- D. To identify potential suppliers for the organization.

**Answer: A**

Explanation:

- \* In NIST SP 800-53 Rev. 5, SR-6: Supplier Assessments and Reviews requires evaluating and monitoring suppliers' security and risk practices.
- \* Exact extract (NIST SP 800-53 Rev. 5, SR-6):
- \* "The organization assesses and monitors suppliers to ensure they are meeting the security requirements specified in contracts and agreements."
- \* This is about ongoing monitoring of supplier adherence, not financial audits, not contract creation, and not supplier discovery.

References:

NIST SP 800-53 Rev. 5, Control SR-6 (Supplier Assessments and Reviews): <https://csrc.nist.gov/publications/detail/sp/800-53/rev-5/final>

### NEW QUESTION # 33

Which information does a user need to verify a signed container image?

- A. The image's SHA-256 hash and the private key of the signing authority.
- **B. The image's digital signature and the public key of the signing authority.**
- C. The image's SHA-256 hash and the public key of the signing authority.
- D. The image's digital signature and the private key of the signing authority.

**Answer: B**

Explanation:

- \* Container image signing (e.g., withcosign, Notary v2) uses asymmetric cryptography.
- \* Verification process:
- \* Retrieve the image's digital signature.
- \* Validate the signature with the public key of the signer.
- \* Exact extract (Sigstore Cosign Docs):
- \* "Verification of an image requires the signature and the signer's public key. The signature proves authenticity and integrity."
- \* Why others are wrong:
- \* A & B: The private key is only used by the signer, never shared.
- \* C: The hash alone cannot prove authenticity without the digital signature.

References:

Sigstore Cosign Docs: <https://docs.sigstore.dev/cosign/overview>

### NEW QUESTION # 34

What information is stored in etcd?

- A. Pod data contained in Persistent Volume Claims (e.g. hostPath).
- **B. Etcd manages the configuration data, state data, and metadata for Kubernetes.**
- C. Sensitive user data such as usernames and passwords.
- D. Application logs and monitoring data for auditing and troubleshooting purposes.

**Answer: B**

Explanation:

- \* etcd is Kubernetes' key-value store for cluster state.
- \* Stores: ConfigMaps, Secrets, Pod definitions, Deployments, RBAC policies, and metadata.
- \* Exact extract (Kubernetes Docs - etcd):
- \* "etcd is a consistent and highly-available key-value store used as Kubernetes' backing store for all cluster data."
- \* Clarifications:
- \* B: Logs/metrics are handled by logging/monitoring solutions, not etcd.
- \* C: Secrets may be stored here but encoded in base64, not specifically "usernames/passwords" as primary use.
- \* D: Persistent Volumes are external storage, not stored in etcd.

References:

Kubernetes Docs - etcd: <https://kubernetes.io/docs/concepts/overview/components/#etcd>

### NEW QUESTION # 35

Which of the following statements best describe container image signing and verification in the cloud environment?

- A. Container image signatures are mandatory in cloud environments, as cloud providers would deny the execution of unsigned container images.
- B. Container image signatures are concerned with defining developer ownership of applications within multi-tenant environments.
- C. Container image signatures affect the performance of containerized applications, as they increase the size of images with additional metadata.
- **D. Container image signatures and their verification ensure their authenticity and integrity against tampering.**

**Answer: D**

Explanation:

- \* Image signing (withNotary, cosign, or similar tools) ensures that images are from a trusted source and have not been modified.
- \* Exact extract (Sigstore cosign docs): "Cosign allows you to sign and verify container images to ensure authenticity and integrity."
- \* Why others are wrong:
- \* B: Ownership can be inferred but it's about authenticity & integrity, not tenancy.
- \* C: Not mandatory; enforcement requires admission controllers.
- \* D: Metadata size is negligible and has no runtime performance impact.

References:

Sigstore Project: <https://docs.sigstore.dev/cosign/overview>

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