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Linux Foundation Certified Kubernetes Security Specialist (CKS) Sample Questions (Q30-Q35):

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Linux Foundation Certified Kubernetes Security Specialist (CKS) Sample Questions (Q40-Q45):

NEW QUESTION # 40
You're setting up a new Kubernetes cluster for a critical application, and you want to ensure that only authorized users can access the cluster's API server. Implement a solution using RBAC to achieve this, outlining the steps and the necessary configurations.

Answer:

Explanation:
Solution (Step by Step) :
1. Create a ClusterRole:
- Define a ClusterRole named 'cluster-admins that grants comprehensive permissions to manage cluster resources.
2. Create a ClusterRoleBinding: - Bind the 'cluster-admin' ClusterRoIe to a specific user or service account. - This grants the bound entity administrative access to the cluster.
3. Create a Role: - Define a Role named 'pod-reader' that grants limited access to read pod information.
4. Create a RoIeBjnding: - Bind the 'pod-reader Role to a group of users or service accounts. - This allows the bound entities to read pod information within the specified namespace.
5. Configure Authentication: - Set up authentication methods for accessing the API server, such as: - x509 certificates: Use digital certificates to authenticate users. - OAuth2: Use OAuth2 for user authentication. - Basic authentication: Use username and password for authentication.

NEW QUESTION # 41
You're designing a security policy for your Kubernetes cluster to restrict container image sources. You want to allow only images from your private registry and a few trusted public registries. How would you implement this policy using Admission Webhooks and what kind of validation logic would you implement in the webhook?

Answer:

Explanation:
Solution (Step by Step) :
1. Create Admission Webhook:
- Define a Kubernetes Admission Webhook that will intercept requests to create or modify pods.
- You'll need to create a webhook configuration and a service that will handle the validation logic-
- Example webhook configuration:
2. Implement Validation Logic (Service): - Create a service that will handle the webhook requests. This service should contain your validation logic. - The validation logic should check the container images used in the pod definitions. - Sample validation logic (Python using Flask, but you could use any language/framework): python from flask import Flask, request, jsonity import json
3. Deploy Service and Webhook: - Deploy your service and the webhook configuration. - Ensure that your service is accessible by the Kubernetes API server. 4. Test: - Create or update a pod with a container image from an allowed source. The webhook should allow it. - Create a pod with a container image from a disallowed source. The webhook should deny it.

NEW QUESTION # 42
Service is running on port 389 inside the system, find the process-id of the process, and stores the names of all the open-files inside the /candidate/KH77539/files.txt, and also delete the binary.

- A. Send us your Feedback on this.

Answer: A

NEW QUESTION # 43
SIMULATION

Task
Create a NetworkPolicy named pod-access to restrict access to Pod users-service running in namespace dev-team.
Only allow the following Pods to connect to Pod users-service:

Answer:

Explanation:

NEW QUESTION # 44
Your Kubernetes cluster uses a snared secret to authenticate and authorize users accessing a sensitive API. However, you are concerned about the potential tor compromised secrets in the cluster, leading to unauthorized access. How can you securely manage secrets in the cluster using a secrets management solution like HashiCorp Vault, minimizing the risk of unauthorized access?

Answer:

Explanation:
Solution (Step by Step) :
1. Deploy HashiCorp Vault:
- Install Vault on a secure infrastructure within your cluster or outside. This could be a dedicated virtual machine or a Kubernetes pod.
- Configure Vault with the appropriate security settings. This includes enabling TLS, setting up authentication methods, and configuring access controls.
2. Configure Secrets Management:
- Create a secret engine in Vault to manage the shared secret This could be a "KV' engine or a specific engine for storing secrets.
- Store the shared secret securely in Vault.
- Configure Vault to provide access to the secret only to authorized applications or services. This can be achieved using Vault's roles and policies.
3. Integrate Vault with Kubernetes
- Use the Kubernetes Vault provider to connect the cluster to Vault. This allows Kubernetes to access secrets stored in Vault.
- Configure Kubernetes to use Vault for secret management. This can be done by creating a Vault Secret Manager, which provides a way to inject secrets into pods or other Kubernetes resources.
4. Update the application:
- MOdify the application to retrieve secrets from Vault instead of accessing them directly from the Kubernetes secret. This ensures that the application interacts with the secure secrets in Vault
5. Monitor and rotate secrets:
- Regularly monitor the access and usage of secrets in Vault.
- Implement a process to rotate the shared secret periodically. This minimizes the risk of unauthorized access if the secret is compromised.
This approach significantly improves the security of your clusters secrets by removing them from Kubernetes and using a dedicated secrets management system.
This multi-step process ensures that your sensitive data is stored securely and only authorized services or applications can access it.

NEW QUESTION # 45
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