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Linux Foundation Certified Kubernetes Security Specialist (CKS) Sample Questions (Q33-Q38):

NEW QUESTION # 33
You have a Kubernetes cluster running on a public cloud provider. You're deploying a microservice application that handles sensitive user data To enhance security, you need to implement Pod-to-Pod encryption using Cilium. This encryption should be applied to all communication between pods within your application's namespace. How would you configure Cilium to achieve this, while also

ensuring that you can still access the application from outside the cluster through a dedicated Ingress service?

Answer:

Explanation:
Solution (Step by Step) :
1. Install Cilium:
- Install Cilium on your Kubernetes cluster using the official installation guide: [httpsi//docs.Cilium.i0/ennatest/gettingstaned/install] (https:Ildocs.cilium.io/en/latest/gettingsta ned/install).
- Choose the installation method compatible with your cluster.
2. Enable Encryption:
- Modify the Cilium configuration to enable encryption. In your cluster's configuration file (e.g., 'cilium-config.yaml'), add or modify the following settings:
- Apply the configuration changes: 'kubectl apply -f cilium-config_yamr 3. Create Network Policy tor Encryption: - Define a NetworkPolicy that allows only encrypted communication within your application's namespace:
- Apply the NetworkPolicy: 'kubectl apply -f pod-to-pod-encryption.yaml' 4. Expose the Application with Ingress: - Create an Ingress service to expose your application outside the cluster.
- Apply the Ingress: 'kubectl apply -f your-application-ingress-yaml' 5. Verify Configuration: - Check the status of Cilium pods and ensure they are running and ready_ - Use 'kubectl get pods -n kube-system' and 'kubectl get pods -n your-application-namespace' to monitor the status. 6. Test Communication: - Test communication between pods within your application's namespace to verify encrypted traffic. - Test accessing your application from outside the cluster using the Ingress URL. 7. (Optional) Monitor Encryptiom - Enable Cilium logging and monitoring to view encryption details, such as handshake success/failure rates, and troubleshoot any issues. Note: - This configuration assumes that your pods are running on nodes with Cilium installed. - Ensure that your public cloud provider supports the necessary firewall settings for encrypted traffic. - You can adjust the NetworkPolicy rules based on your specific application needs.

NEW QUESTION # 34
Create a RuntimeClass named gvisor-rc using the prepared runtime handler named runsc.
Create a Pods of image Nginx in the Namespace server to run on the gVisor runtime class

Answer:

Explanation:
Install the Runtime Class for gVisor
{ # Step 1: Install a RuntimeClass
cat <<EOF | kubectl apply -f -
apiVersion: node.k8s.io/v1beta1
kind: RuntimeClass
metadata:
name: gvisor
handler: runsc
EOF
}
Create a Pod with the gVisor Runtime Class
{ # Step 2: Create a pod
cat <<EOF | kubectl apply -f -
apiVersion: v1
kind: Pod
metadata:
name: nginx-gvisor
spec:
runtimeClassName: gvisor
containers:
- name: nginx
image: nginx
EOF
}
Verify that the Pod is running
{ # Step 3: Get the pod

kubectl get pod nginx-gvisor -o wide
}

NEW QUESTION # 35
You have a Kubernetes cluster running with the default RBAC configuration. You need to create a role that allows a user to access only specific namespaces and perform certain actions within those namespaces. For example, you want to allow the user to view pods, deployments, and services in the 'development namespace, but only allow them to create and delete pods in the 'productions namespace.

Answer:

Explanation:
Solution (Step by Step) :
1. Create a Role for 'development' namespace:
2. Create a Role for 'production' namespace:
3. Create a ROIeBinding for the 'development' namespace:
4. Create a RoleBinding for the 'production' namespace:
5. Apply the YAML files using 'kubectl apply -f 6. Verify the permissions: Try to perform the allowed actions in the respective namespaces. You should be able to successfully perform the actions defined in the roles.

NEW QUESTION # 36
SIMULATION
use the Trivy to scan the following images,
1. amazonlinux:1
2. k8s.gcr.io/kube-controller-manager:v1.18.6
Look for images with HIGH or CRITICAL severity vulnerabilities and store the output of the same in /opt/trivy-vulnerable.txt

Answer:

Explanation:
Send us you rsuggestion on it

NEW QUESTION # 37
Describe now you would design a security posture for a Kubernetes cluster using the CIS Kubernetes Benchmark as a guideline. Include key areas to focus on, relevant security controls, and how you would monitor and enforce compliance with the benchmark.

Answer:

Explanation:
Solution (Step by Step) :
1. Review CIS Kubernetes Benchmark:
- Thoroughly familiarize yourself With the CIS Kubernetes Benchmark, which outlines security best practices and controls.
2. Assess Current Security Posture:
- Audit the current security configuration of your Kubernetes cluster against the CIS benchmark. This includes:
- Cluster Access Control: Verity that access iS restricted to authorized users and accounts.
- Authentication and Authorization: Ensure that strong authentication mechanisms are in place and that roles are properly assigned.
- Image Security: Review the security of images used in your deployments, ensuring they are from trusted sources and have appropriate security measures.
- Network Security: Implement network policies to restrict communication between pods and enforce least-privilege access.
- Pod Security: Define PodSecurityPoIicies to control resources and capabilities available to pods.
- Logging and Monitoring: Configure robust logging and monitoring systems to detect and respond to security incidents.
3. Develop Security Controls:
- Implement security controls based on the CIS benchmark findings. This may include:
- RBAC (Role-Based Access Control): Use RBAC to define granular permissions for users and service accounts.
- Network Policies: Implement network policies to restrict inter-pod communication and external access.
- Admission Controllers: Use admission controllers like PodSecurityPolicy and NetworkPolicy to enforce security policies before

deployments are allowed.
- Image Scanning: Regularly scan container images for vulnerabilities.
- Secret Management: Securely manage and store sensitive information using Kubernetes Secrets.
- Logging and Monitoring: Configure centralized logging and monitoring systems to track activity and identity security events.
4. Monitor and Enforce Compliance:
- Continuously monitor the cluster's security posture against the CIS benchmark using tools like:
- Kube-bench: A tool for assessing Kubernetes security posture.
- CIS Kubernetes Benchmark Scanner A dedicated scanner for compliance checks.
- Custom Monitoring Tools: Develop custom tools to monitor specific aspects of the cluster.
- Implement mechanisms to automate security cnecks and enforce compliance. This could involve:
- Automated Security Scanning: Schedule regular security scans.
- Alerting: Configure alerts for security events and non-compliant configurations.
- Remediation: Implement automated remediation actions for security vulnerabilities.
5. Continuous Improvement:
- Regularly review and update the security posture to stay ahead of evolving threats.
- Keep up with the latest security recommendations and updates to the CIS Kubernetes Benchmark.
- Conduct security training for team members to promote awareness and best practices.

NEW QUESTION # 38
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Configuring the eDirectory Driver, However, their purpose is the CKS same, and for the exam, you should familiarize yourself with these changes so you know what they are and what their purpose is.

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