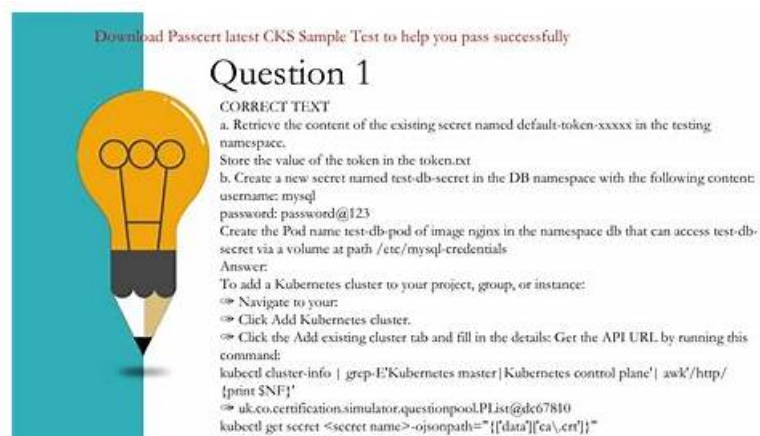


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Question 1

CORRECT TEXT

a. Retrieve the content of the existing secret named default-token-xxxxx in the testing namespace.
Store the value of the token in the token.txt

b. Create a new secret named test-db-secret in the DB namespace with the following content:
username: mysql
password: password@123
Create the Pod name test-db-pod of image nginx in the namespace db that can access test-db-secret via a volume at path /etc/mysql-credentials

Answer:
To add a Kubernetes cluster to your project, group, or instance:
➤ Navigate to your:
➤ Click Add Kubernetes cluster.
➤ Click the Add existing cluster tab and fill in the details: Get the API URL by running this command:
kubectl cluster-info | grep -E 'Kubernetes master|Kubernetes control plane'| awk '/http/{print \$NF}'
➤ uk.co.certification.simulator.questionpool.P1List@dc67810
kubectl get secret <secret name> -o jsonpath='{.data["ca.crt"]}'

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The CKS certification exam is a performance-based exam that assesses the candidate's ability to perform tasks related to securing a Kubernetes cluster. CKS exam covers a wide range of topics, including cluster hardening, network security, identity and access management, and container security. CKS exam is conducted online and is proctored, ensuring that the candidate's skills are evaluated fairly and accurately.

To be eligible for the CKS Certification Exam, candidates must have a current and active Certified Kubernetes Administrator (CKA) certification. This ensures that the candidate has a strong foundation in Kubernetes and containerization and is prepared to take on the advanced security topics covered in the CKS exam. Candidates must also have a minimum of two years of experience in Kubernetes and containerization.

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Linux Foundation Certified Kubernetes Security Specialist (CKS) Sample Questions (Q42-Q47):

NEW QUESTION # 42

SIMULATION

Task

Analyze and edit the given Dockerfile /home/candidate/KSSC00301/Docker file (based on the ubuntu:16.04 image), fixing two instructions present in the file that are prominent security/best-practice issues.

Analyze and edit the given manifest file /home/candidate/KSSC00301/deployment.yaml, fixing two fields present in the file that are prominent security/best-practice issues.

Answer:

Explanation:

See the Explanation below

Explanation:

NEW QUESTION # 43

Your Kubernetes cluster runs a Deployment named 'database' which exposes a database service. You need to implement a NetworkPolicy that allows only pods belonging to a specific namespace to access the database service.

Answer:

Explanation:

Solution (Step by Step) :

1. Create a NetworkPolicy:

- Define a NetworkPolicy resource with a 'podSelector' that matches the 'database' Deployment.
- Create an 'ingress' rule that allows traffic from pods in the specified namespace.
- Use the 'from' field to specify the namespace and set the 'namespaceSelector' to the desired namespace.
- Ensure that the port used by the database service is included in the 'ports' field.

2. Apply the NetworkPolicy: - Apply the YAML file using 'kubectl apply -f database-access-policy.yaml' 3. Verify the NetworkPolicy: - Use 'kubectl get networkpolicies' to list the available network policies. - Use 'kubectl describe networkpolicy database-access-policy' to view the details of the applied policy. 4. Test the NetworkPolicy: - Deploy a pod in the 'allowed-namespace' and attempt to connect to the database service. Verify that the connection is successful. - Deploy a pod in a different namespace and attempt to connect to the database service. Verify that the connection is denied.

NEW QUESTION # 44

You are tasked with securing a Kubernetes cluster that is running on AWS- One of the security best practices you want to implement is to limit the number of IP addresses that can access the Kubernetes API server. You need to configure the 'kube-apiserver' to only allow access from specific IP addresses, using the '--insecure-bind-address' flag to restrict access. How would you configure 'kube-apiserver' to achieve this using an '--insecure-bind-address' flag, but allow access from only specific IP addresses?

Answer:

Explanation:

Solution (Step by Step) :

1. Identify Allowed IP Addresses: Determine the specific IP addresses that should be allowed to access the Kubernetes API server. For example, you might allow access from your local machine's IP address (e.g., 192.168.1.100), and the IP addresses of any bastion hosts that are used for remote management.
2. Modify the 'kube-apiserver' Configuration:
 - Locate the 'kube-apiserver' configuration file (typically found at '/etc/kubernetes/manifests/kube-apiserver.yaml' or similar).
 - In the 'kube-apiserver' configuration file, find the '--insecure-bind-address' flag.
 - Set the '--insecure-bind-address' flag to '0.0.0.0' to allow access from all IP addresses.
3. Restart 'kube-apiserver': Apply the updated configuration file. Depending on how the Kubernetes cluster is deployed, you may need to restart the 'kube-apiserver' pod or container.
4. Verify the Configuration: - After restarting 'kube-apiservers', test that you can access the API server from the allowed IP addresses. - Test from any disallowed IP addresses to confirm access is blocked.

NEW QUESTION # 45

SIMULATION

On the Cluster worker node, enforce the prepared AppArmor profile

```
#include <tunables/global>
profile nginx-deny flags=(attach_disconnected) {
#include <abstractions/base>
file,
# Deny all file writes.
deny /** w,
}
EOF'
```

Edit the prepared manifest file to include the AppArmor profile.

apiVersion: v1

```
kind: Pod
metadata:
  name: apparmor-pod
spec:
  containers:
  - name: apparmor-pod
    image: nginx
```

Finally, apply the manifests files and create the Pod specified on it.
Verify: Try to make a file inside the directory which is restricted.

- **A. Send us the Feedback on it.**

Answer: A

NEW QUESTION # 46

You are tasked With securing a Kubernetes cluster that is hosting sensitive applications. You need to implement a robust security posture, including network segmentation, secure communication, and authentication. Explain how you would leverage Pod Security Policies (PSPs) to enforce security controls for pods in the cluster. Provide a practical example of a PSP definition that enforces specific security restrictions.

Answer:

Explanation:

Solution (Step by Step) :

1. Create a Pod Security Policy:
 - Define the security policy using a YAML file.
 - The file will include specific rules for the policy.
2. Apply the Pod Security Policy: - After creating the policy, you can apply it to the cluster: `bash kubectl apply -f restricted-psp.yaml`
3. Use the Pod Security Policy: - You can enforce the policy on a pod using the 'securityContext' field in the pod's YAML file. - For example:
4. Enforce the Policy: - The PSP will enforce the specified restrictions on pods that are created using the deployment configuration.

NEW QUESTION # 47

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