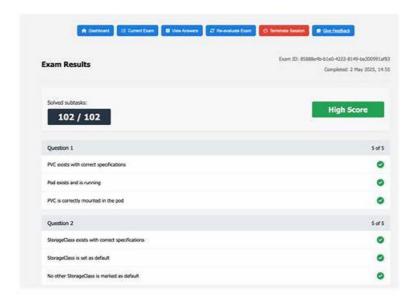
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Linux Foundation CKS (Certified Kubernetes Security Specialist) Certification Exam is an essential certification program for professionals seeking to validate their knowledge and skills in securing Kubernetes clusters. Certified Kubernetes Security Specialist (CKS) certification exam covers a wide range of security topics and is vendor-neutral, making it a valuable credential for professionals working in a variety of industries. CKS Exam is rigorous and performance-based, ensuring that certified professionals possess the necessary knowledge and skills to secure Kubernetes environments effectively.

Linux Foundation Certified Kubernetes Security Specialist (CKS) Sample Questions (Q66-Q71):

NEW QUESTION #66

You are tasked with securing a Kubemetes 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-apjserver' configuration file (typically found at "etc/kubernetestmanifests/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.

```
apiVersion: apps/vl
kind: Deployment
metadata:
 name: kube-apiserver
spec:
 replicas: 1
 selector:
   matchLabels:
     app: kube-apiserver
  template:
   metadata:
      labels:
        app: kube-apiserver
   spec:
       image: k8s.gcr.io/kube-apiserver:v1.24.3
command:
      containers:
      - name: kube-apiserver
        - kube-apiserver
        -- insecure-bind-address=0.0.0.0
       ---authorization-mode=RBAC
---client-ca-file=/etc/kubernetes/pki/ca.crt
       FOU tls cert file=/etc/kubernetes/pki/apiserver.crt
       - --tls-private-key-file=/etc/kubernetes/pki/apiserver.key
       # Additional parameters for kube-apiserver
      # Define the security context for the container
      securityContext:
      # Set the privileged flag to false
      privileged: false
      # Set the runAsNonRoot flag to true
      runAsNonRoot: true
      # Set the allowPrivilegeEscalation flag to false
      allowPrivilegeEscalation: false
      # Set the runAsUser to 1000
```

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 #67

Cluster: qa-cluster Master node: master Worker node: worker1 You can switch the cluster/configuration context using the following command: [desk@cli] \$ kubectl config use-context qa-cluster Task: Create a NetworkPolicy named restricted-policy to restrict access to Pod product running in namespace dev. Only allow the following Pods to connect to Pod products-service: 1. Pods in the namespace qa 2. Pods with label environment: stage, in any namespace

Answer:

Explanation:

```
candidate@cli:~$ kubectl config use-context KSSH00301
Switched to context "KSSH00301".
candidate@cli:~$
candidate@cli:~$
candidate@cli:~$ kubectl get ns dev-team --show-labelsONAME STATUS AGE LABELS
NAME STATUS AGE LABELS
dev-team Active 6h39m environment=dev Phase
                                                          rnetes.io/metadata.name=dev-team
candidate@cli:~$ kubectl get pods -- Gy team --show-labels
NAME READY STATUS BESTARTS AGE LABELS
users-service 1/1 Republic 0 6640m environments.
users-service 1/1
candidate@cli:~$ ls
cscot vsmv00102 kssc00301 kssh00401
                                                       6h40m
                                                                environment=dev
                                                         test-secret-pod.yaml
KSCS00101 KSMV00301 KSSH00301
                                       password.txt username.txt
candidate@cli:~$ vim np.yaml
```

```
apiVersion: networking.k8s.io/v1
kind: NetworkPolicy
metadata:
    name: pod-access
    namespace: dev-team

spec:
    podSelector:
        matchLabels:
        environment: dev
policyTypes:storrent.com

policyTypes:storrent.com

ingress:
    - from:
        - namespaceSelector:
        matchLabels:
        environment: dev FOUNDATION
        - podSelector:
        matchLabels:
        environment: testing
```

```
candidate@cli:~$ vim np.yaml
candidate@cli:~$ cat np.yaml
apiVersion: networking.k8s.io/vl
   kind: NetworkPolicy
metadata:
      name: pod-access
      namespace: dev-team
      podSelector:
matchLabels:
           environment: dev
     policyTypes:
- Ingress
      ingress:
           from:
                 namespaceSelector:
matchLabels:
environment: dev
- podSelector:
matchLabels:
   apiVersion: networking.k8s.io/vl
   kind: NetworkPolicy
metadata:
name: ""
     namespace: ""
     podSelector: {}
policyTypes:
         - Ingress
   ingress:
- from: []
- from: []
candidate@cli:-$ cp np.yaml KSSH00301/network-policy.yaml
candidate@cli:-$ cat KSSH00301/network-policy.yaml
      ingress:
```

```
candidate@cli:~$ cat <u>KSSH</u>00301/network-policy.yaml
apiVersion: networking.k8s.io/v1
kind: NetworkPolicy
metadata:
  name: pod-access
                   Storrent.com
  namespace: dev-team
spec:
 podSelector:
    matchLabels:
      environment: dev
  policyTypes:

    Ingress

  ingress:
    - from:
          namespaceSelector:
           matchLabels:
              environment: dev
        - podSelector:
            matchLabels:
              environment: testing
candidate@cli:~$
```

NEW OUESTION #68

You are managing a Kubernetes cluster with multiple namespaces and applications. You have a sensitive application deployed in a namespace called 'sensitive-app'. This application has a service account called 'sensitive-app-sa' that requires access to a snared secret named 'shared-secret in a different namespace called 'shared-resources'. Explain how you would securely grant access to this secret without allowing 'sensitive-app-sa' to access other resources in the 'shared-resources' namespace.

Answer:

Explanation:

Solution (Step by Step):

- 1. Create a Service Account in the 'sensitive-app' namespace:
- Ensure a service account named 'sensitive-app-sa' exists in the 'sensitive-app' namespace.
- 2. Create a Role in the 'shared-resources' namespace:
- In the 'shared-resources' namespace, create a custom role named 'shared-secret-reader.
- This role will only grant read access to the 'shared-secret' secret.

```
apiVersion: rbac.authorization.k8s.io/v1
kind: Role
metadata:
name: shared-secret-reader
namespace: shared-resources
rules:
- apiGroups: ["core"]
resources: ["secrets"]
verbs: ["get"]
resourceNames: ["shared-secret"] # Only allow access to this specific secret
3 Create a POIADirading in the last
```

3. Create a ROIeBinding in the 'snared-resources' namespace: - In the 'shared-resources' namespace, create a role binding named 'sensitive-app-sa-binding' - This role binding associates the 'sensitive-app-sa' service account from the 'sensitive-app' namespace

with the 'shared-secret-reader' role.

```
apiVersion: rbac.authorization.k8s.io/v1
kind: RoleBinding
metadata:
name: sensitive-app-sa-binding
namespace: shared-resources
subjects:
- kind: ServiceAccount
name: sensitive-app-sa
namespace: sensitive-app
roleRef:
kind: Role
name: shared-secret-reader
apiGroup: rbac.authorization.k8s.io
```

4. Update your Application Deployment. - Ensure that your application deployment in the 'sensitive-app' namespace is configured to use the 'sensitive-app-sa' service account.

NEW QUESTION #69

You are tasked with hardening a Kubernetes cluster to meet the requirements of the CIS Kubernetes Benchmark. One of the key areas is to implement proper access control and authentication. You need to create a strong authentication mechanism that uses client certificates for authentication, while also using RBAC to define specific roles and permissions for different users. How would you set up a strong authentication mechanism using client certificates for authentication and configure R8AC to define specific roles and permissions for different users, to comply With the CIS Kubernetes Benchmark?

Answer:

Explanation:

Solution (Step by Step):

- 1. Generate Client Certificates:
- use a tool like 'ctssr to generate client certificates for each user who needs access to the cluster.
- Create a separate certificate authority (CA) to issue these Client certificates.
- For each user, create a certificate signing request (CSR) and use the CA to sign the CSR to generate the client certificate and private key.
- 2. Configure Kubernetes API Server:
- Modify the Kubernetes API server configuration (e.g., '/etc/kubernetes/manifests/kube-apiserver.yaml') to enable client certificate authentication:
- Set '--client-ca-file' to the path of the CA certificate.
- Set '--tls-cen-file' to the path of the API server certificate.
- Set '--tls-private-key-files to the path of the API server private key.

```
paren saum apps/ va
ind: Deployment
etadata:
name: kube-apiserver
pec:
replicas: 1
selector:
  matchLabels:
    app: kube-apiserver
 template:
                                        t.com
  metadata:
    labels:
      app: kube-apiserver
  spec:
     containers:
     - name: kube-apiserver
      image: k8s.gcr.io/kube-apiserver:v1.24.3
      command:
      - kube-apiserver
      - --insecure-bind-address=0.0.0.0
      - --authorization-mode=RBAC
       - --client-ca-file=/etc/kubernetes/pki/ca.crt
       - --tls-cert-file=/etc/kubernetes/pki/apiserver.crt
       - --tls-private-key-file=/etc/kubernetes/pki/apiserver.ke
      # Additional parameters for kube-apiserver
     # Define the security context for the container
     securityContext:
       # Set the privileged flag to false
       privileged: false
       # Set the runAsNonRoot flag to true
       runAsNonRoot: true
       # Set the allowPrivilegeEscalation flag to false allowPrivilegeEscalation: false
                                             LINUX
       # Set the runAsUser to 1000
```

3. Define RBAC Roles: - Use 'kubectr to create RBAC roles for different user groups. - Define roles that map to specific permissions. For example. - 'admin': Full access to the cluster - 'developers: Ability to create and manage resources, but not access sensitive information. - 'viewer': Only able to view resources.

```
apiVersion: rbac.authorization.k8s.io/v1
kind: Role
metadata:
  name: admin
  namespace: default
rules:
- apiGroups: [""
                               rent.com
  resources:
  verbs:
     FOUNDATION
apiVersion: rbac.authorization.k8s.io/v1
kind: Role
metadata:
  name: developer
  namespace: default
rules:
- apiGroups: ["apps"]
                             "pods", "services"]
  resources: ["deployments"
 verbs: ["get", "list"
                          'watch", "create", "update", "delete"]
- apiGroups: [""]
  resources: ["namespaces"]
  verbs: ["get", "list", "watch"]
apiVersion: rbat.authorization.k8s.io/v1
kind: Role
metadata:
  name: viewer
  namespace: default
rules:
- apiGroups: [""]
  resources: [""]
  verbs: ["get", "list", "watch"]
```

4. Bind Roles to Users: - Create RoleBindings that link the roles to the users who need access to them. - Use the client certificate and private key to authenticate as the user and bind the appropriate role. - You can bind roles to users individually or to groups. 5. Configure 'kubectr' - Configure the 'kubectr command-line tool to use client certificates for authentication. - Set the 'KI-IBECONFIG' environment variable to point to a file containing the client certificate and private key. - Run 'kubectl config set-credentials -client-key -client-certificate to configure the user with the certificate. 6. Verify Configuration: - Test that the configuration works by logging in as different users and verifying that they have the expected permissions.

NEW QUESTION #70

You are running a Kubernetes cluster with a deployment named "my-app" that has been experiencing unexpected crashes. The crash logs indicate that the container's memory consumption is exceeding the resource limits defined in the deployment YAML. Explain how you can utilize the Kubernetes resource quotas and admission controller to prevent this from happening again.

Answer:

Explanation:

Solution (Step by Step):

- 1. Create a ResourceQuota:
- Define a ResourceQuota that limits the resources that can be consumed by pods in a specific namespace.
- Specify the limits for CPU, memory, storage, and other resources.
- For example, to limit memory usage to 2Gi per pod in the "my-app" namespace:

```
apiVersion: v1
kind: ResourceQuota
metadata:
   name: memory limit
   namespace: my-app
spec:
   limits:
   memory: "2Gi"
```

2. Enable the Resourceauota Admission Controller: - Ensure that the "Resourceauota" admission controller is enabled in your Kubernetes cluster. This can usually be done by setting the 'admissioncontror flag in the 'kube-apiserver' configuration. 3. Apply the ResourceQuota: - Apply the ResourceQuota to the "my-app" namespace using 'kubectl apply -f resource-quota_yaml 4. Update the Deployment - Modify the deployment's YAML file to specify the resource requests and limits for the container, ensuring they are within the defined ResourceQuota limits. For example:

5. Apply the updated deployment - Apply the updated deployment using 'kubectl apply -f deployment.yam' 6. Monitor and Evaluate: - Monitor the resource consumption of pods in the "my-app" namespace and adjust the ResourceQuota limits as needed to ensure that your cluster remains stable.

NEW QUESTION #71

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