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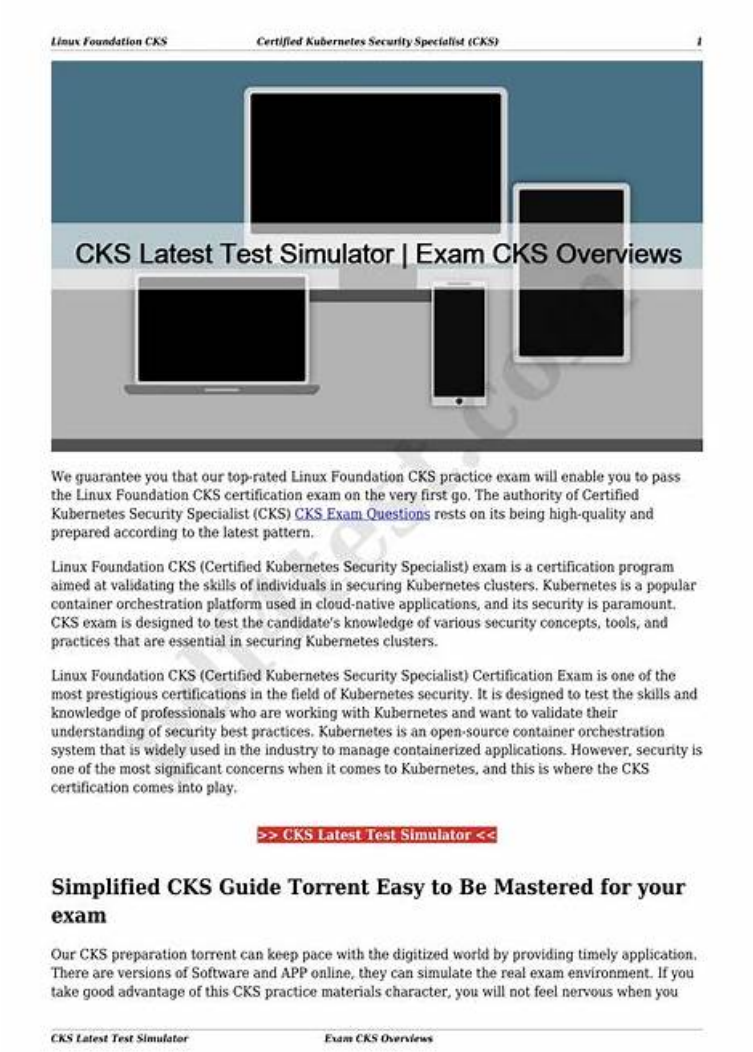

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Achieving the CKS Certification is a valuable asset for IT professionals who are responsible for securing Kubernetes clusters. Certified Kubernetes Security Specialist (CKS) certification demonstrates that a candidate has the knowledge and skills to effectively manage the security risks associated with Kubernetes clusters, and can take proactive measures to prevent security breaches. Additionally, the certification can help professionals differentiate themselves in a competitive job market and increase their earning potential.

Linux Foundation Certified Kubernetes Security Specialist (CKS) Sample Questions (Q130-Q135):

NEW QUESTION # 130
You are tasked with implementing a security policy that prohibits the use of privileged containers in your Kubernetes cluster. Implement a solution that uses KubeLinter to enforce this policy by automatically scanning all deployments and preventing deployments that violate the policy.

Answer:

Explanation:
Solution (Step by Step):
1. Install KubeLinter: Download and install the 'kubevar binary from the official GitHub repository.
2. Create a custom KubeLinter check: Define a custom check that prohibits the use of privileged containers. This check can be defined in a separate
YAML file or embedded in your '.kubeval.yaml configuration file.

```
# custom-checks.yaml
privileged-container:
  message: "Privileged containers are not allowed."
  path: spec.template.spec.containers[].securityContext.privileged
  rule:
    type: 'anyOf'
    conditions:
      - type: 'isNull'
      - type: 'isFalse'
```

3. Configure KubeLinter to use the custom check: Add the custom check to your .kuoeval.yaml configuration file.

```
extends:
  - ./custom-checks.yaml
```

4. Integrate KubeLinter into your CI/CD pipeline: Add a step to your pipeline that runs KubeLinter against your deployment YAML manifests. This step should be executed before the manifests are deployed to the cluster.

```
# .gitlab-ci.yml
stages:
  - validate
  - deploy

kubeval:
  stage: validate
  image: ghcr.io/stackrox/kubeval:latest
  script:
    - kubeval --strict --config .kubeval.yaml .yaml
  allow_failure: false
```

5. (Optional) Implement an admission controller: For real-time enforcement, deploy an admission controller that uses KubeLinter to validate deployments as they are created or updated. This will prevent any deployments that violate the policy from being created in the cluster. Tools like Kyverno or Gatekeeper can be used to create and enforce such policies.

NEW QUESTION # 131
You are managing a Kubernetes cluster where workloads are spread across multiple nodes- You want to configure Pod Security Policies PSPS to restrict the use of privileged containers and limit the ca abilities of containers running within your cluster.

Answer:

Explanation:
Solution (Step by Step) :
1. Create a Pod Security Policy:
- Create a PSP YAML file named restricted-psp.ya'r:

```
apiVersion: policy/v1beta1
kind: PodSecurityPolicy
metadata:
  name: restricted-psp
spec:
  # Allow only non-root users
  runAsUser:
    rule: "MustRunAsNonRoot"
  # Allow only specific capabilities
  allowedCapabilities:
    - CAP_NET_BIND_SERVICE
    - CAP_CHOWN
  # No privileged containers allowed
  privileged: false
  # Allow only specific volumes
  volumes:
    - 'hostPath'
    - 'emptyDir'
    - 'projected'
    - 'configMap'
    - 'secret'
    - 'persistentVolumeClaim'
```

2. Apply the Pod Security Policy: - Apply the PSP using 'kubectl apply -f restricted-psp.yaml' 3. Create a Deployment using the PSP: - Create a new deployment YAML file named 'test-deployment.yamr that specifies the 'restricted-psp' for the pod's security context:

```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: test-deployment
spec:
  replicas: 1
  selector:
    matchLabels:
      app: test-app
  template:
    metadata:
      labels:
        app: test-app
    spec:
      containers:
      - name: test-container
        image: nginx:latest
        securityContext:
          securityContext:
            pspName: restricted-psp
```

4. Apply the Deployment: - Apply the deployment using 'kubectl apply -f test-deployment.yaml 5. Test the Restrictions: - Try creating a pod that violates the PSP, for example, using a privileged container. The pod should fail to be created due to the PSP enforcement - Try running a command within a using the deployment that uses the PSP. You should be able to run commands but may have limitations based on the capabilities allowed by the PSP.

NEW QUESTION # 132
You have a Kubernetes cluster with a Deployment named 'my-app' that exposes a service on port 80. You want to enforce a policy that allows only traffic from pods With a specific label to access this service.

Answer:

Explanation:
Solution (Step by Step) :
1. Create a NetworkPolicy:
- Define a NetworkPolicy resource with a 'podSelector' that matches the 'my-app' Deployment.

- Create an 'ingress' rule that allows traffic only from pods with the specific label.
- Use the 'from' field to specify the label selector.
- Ensure that the port 80 is included in the 'ports' field.

2. Apply the NetworkPolicy: - Apply the YAML file using 'kubectl apply -f my-app-label-policy-yamr 3. Verify the NetworkPolicy: - Use 'kubectl get networkpolicies' to list the available network policies. - Use 'kubectl describe networkpolicy my-app-label-policy' to view the details ot the applied policy. 4. Test the NetworkPolicy: - Deploy a pod with the label 'allowed: true' and attempt to access the service on port 80. Verify that the connection is successful. - Deploy a pod without the label 'allowed: true' and attempt to access the service on port 80. Verify that the connection is denied.

NEW QUESTION # 133
SIMULATION
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:

Explanation:
To add a Kubernetes cluster to your project, group, or instance:
Navigate to your:
Project's Operations > Kubernetes page, for a project-level cluster.
Group's Kubernetes page, for a group-level cluster.
Admin Area > Kubernetes page, for an instance-level cluster.
Click Add Kubernetes cluster.
Click the Add existing cluster tab and fill in the details:
Kubernetes cluster name (required) - The name you wish to give the cluster.
Environment scope (required) - The associated environment to this cluster.
API URL (required) - It's the URL that GitLab uses to access the Kubernetes API. Kubernetes exposes several APIs, we want the "base" URL that is common to all of them. For example, https://kubernetes.example.com rather than https://kubernetes.example.com/api/v1.
Get the API URL by running this command:
kubectl cluster-info | grep -E 'Kubernetes master|Kubernetes control plane' | awk '/http/ {print $NF}' CA certificate (required) - A valid Kubernetes certificate is needed to authenticate to the cluster. We use the certificate created by default.
List the secrets with kubectl get secrets, and one should be named similar to default-token-xxxxx. Copy that token name for use below.
Get the certificate by running this command:
kubectl get secret <secret name> -o jsonpath="{['data']['ca\.crt']}"

NEW QUESTION # 134
Use the kubesec docker images to scan the given YAML manifest, edit and apply the advised changes, and passed with a score of 4 points.
kubesec-test.yaml

apiVersion: v1
kind: Pod
metadata:
name: kubesec-demo
spec:
containers:
- name: kubesec-demo
image: gcr.io/google-samples/node-hello:1.0
securityContext:
readOnlyRootFilesystem: true
Hint: docker run -i kubesec/kubesec:512c5e0 scan /dev/stdin < kubesec-test.yaml

Answer:

Explanation:
kubesec scan k8s-deployment.yaml
cat <<EOF > kubesec-test.yaml
apiVersion: v1
kind: Pod
metadata:
name: kubesec-demo
spec:
containers:
- name: kubesec-demo
image: gcr.io/google-samples/node-hello:1.0
securityContext:
readOnlyRootFilesystem: true
EOF
kubesec scan kubesec-test.yaml
docker run -i kubesec/kubesec:512c5e0 scan /dev/stdin < kubesec-test.yaml kubesec http 8080 &
[1] 12345
{"severity":"info","timestamp":"2019-05-12T11:58:34.662+0100","caller":"server/server.go:69","message":"Starting HTTP server on port 8080"} curl -sSX POST --data-binary @test/asset/score-0-cap-sys-admin.yml http://localhost:8080/scan
[
{
"object": "Pod/security-context-demo.default",
"valid": true,
"message": "Failed with a score of -30 points",
"score": -30,
"scoring": {
"critical": [
{
"selector": "containers[] .securityContext .capabilities .add == SYS_ADMIN",
"reason": "CAP_SYS_ADMIN is the most privileged capability and should always be avoided"
},
{
"selector": "containers[] .securityContext .runAsNonRoot == true",
"reason": "Force the running image to run as a non-root user to ensure least privilege"
},
// ...

NEW QUESTION # 135
.....

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