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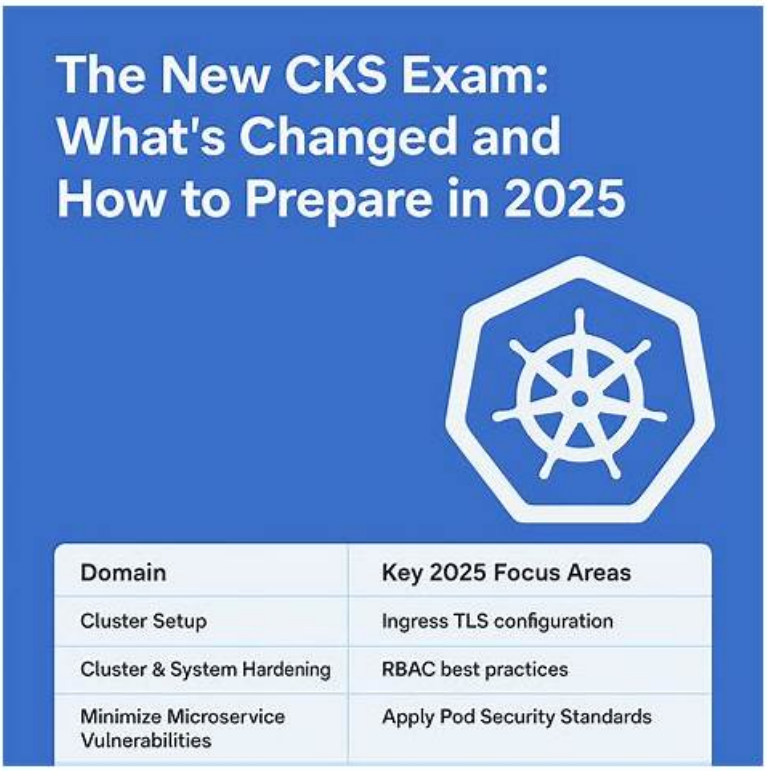

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Pass Guaranteed Quiz High Pass-Rate CKS - Exam Certified Kubernetes Security Specialist (CKS) Experience

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Linux Foundation Certified Kubernetes Security Specialist (CKS) Sample Questions (Q28-Q33):

NEW QUESTION # 28
You are running a Kubernetes cluster that hosts several sensitive applications. You have implemented AppArmor and Seccomp profiles to restrict the system calls and resources that containers can access. However, you want to ensure a more comprehensive and automated way to enforce security policies across the cluster. How would you leverage Kubernetes Admission Controllers to

achieve this, and how would you design a custom Admission Controller to implement your security policies?

Answer:

Explanation:
Solution (Step by Step) :
1. Understand Admission Controllers: Admission Controllers are plugins that act as gatekeepers for Kubernetes. They intercept requests to the Kubernetes API server (like creating Pods, Deployments, etc.) and can modify or reject them based on defined rules.
2. Design a Custom Admission Controller: You can create a custom Admission Controller using the Kubernetes API, the 'kube-apiserver' command, or using libraries like 'admission-webhook-client-go' in Go.
- Define the Admission Policy: Determine the security policies you want to enforce. This could include:
- Seccomp Profile Validation Ensure that all containers have a valid Seccomp profile applied.
- AppArmor Profile Enforcement: Ensure that all containers have the correct AppArmor profile applied.
- Network Policy Compliance: Check if all Pods adhere to defined NetworkPolicies.
- Resource Limits: Ensure tnat all containers have appropriate resource limits set.
- Implement the Validation Logic: Within your custom Admission Controller, implement the logic to:
- Parse the incoming Kubernetes resource (e.g., Pod, Deployment, etc.).
- Verify if the resource conforms to your security policies.
- Modify the resource (if necessary) or reject the request if the resource violates the policies.
- Create an Admission Webhook: Set up an Admission Webh00k to communicate with your custom Admission Controller. The webhook Will be a
server that the Kubernetes API server Will communicate with to validate the incoming requests.
3. Configure Kubernetes:
- Enable Admission Webhooks: Make sure you have enabled the 'AdmissionWebhook' feature in your Kubernetes cluster.
- Configure the Webhook: Add the webhook configuration to your 'kube-apiserver' configuration, pointing it to your Admission Controller server.
4. Deploy and Test: Deploy your custom Admission Controller. You can test its functionality by creating Pods that violate your security policies. The Admission Controller should reject the request, preventing the deployment of those Pods.
5. Example Implementation using Admission Webhook Client Go:
- Note: This is a basic outline- You would need to implement the actual validation logic based on your specific security policies. 6. Benefits: - Centralized Enforcement: Your security policies are entorced at the Kubemetes API level, ensuring consistency across the cluster. - Automation: Automated validation and enforcement ot security policies simplifies security management. - Flexibility: You can create custom Admission Controllers to address specific security needs in your cluster.

NEW QUESTION # 29
Create a new ServiceAccount named backend-sa in the existing namespace default, which has the capability to list the pods inside the namespace default.
Create a new Pod named backend-pod in the namespace default, mount the newly created sa backend-sa to the pod, and Verify that the pod is able to list pods.
Ensure that the Pod is running.

Answer:

Explanation:
A service account provides an identity for processes that run in a Pod.
When you (a human) access the cluster (for example, using kubectl), you are authenticated by the apiserver as a particular User Account (currently this is usually admin, unless your cluster administrator has customized your cluster). Processes in containers inside pods can also contact the apiserver. When they do, they are authenticated as a particular Service Account (for example, default).
When you create a pod, if you do not specify a service account, it is automatically assigned the default service account in the same namespace. If you get the raw json or yaml for a pod you have created (for example, kubectl get pods/<podname> -o yaml), you can see the spec.serviceAccountName field has been automatically set.
You can access the API from inside a pod using automatically mounted service account credentials, as described in Accessing the Cluster. The API permissions of the service account depend on the authorization plugin and policy in use.
In version 1.6+, you can opt out of automounting API credentials for a service account by setting automountServiceAccountToken: false on the service account:
apiVersion: v1
kind: ServiceAccount
metadata:
name: build-robot

automountServiceAccountToken: false
...
In version 1.6+, you can also opt out of automounting API credentials for a particular pod:
apiVersion: v1
kind: Pod
metadata:
name: my-pod
spec:
serviceAccountName: build-robot
automountServiceAccountToken: false
...
The pod spec takes precedence over the service account if both specify a automountServiceAccountToken value.

NEW QUESTION # 30
Cluster: scanner Master node: controlplane Worker node: worker1
You can switch the cluster/configuration context using the following command:
[desk@cli] $ kubectl config use-context scanner
Given: You may use Trivy's documentation.
Task: Use the Trivy open-source container scanner to detect images with severe vulnerabilities used by Pods in the namespace nato. Look for images with High or Critical severity vulnerabilities and delete the Pods that use those images. Trivy is pre-installed on the cluster's master node. Use cluster's master node to use Trivy.

Answer:

Explanation:

NEW QUESTION # 31
Create a Pod name Nginx-pod inside the namespace testing, Create a service for the Nginx-pod named nginx-svc, using the ingress of your choice, run the ingress on tls, secure port.

Answer:

Explanation:
$ kubectl get ing -n <namespace-of-ingress-resource>
NAME HOSTS ADDRESS PORTS AGE
cafe-ingress cafe.com 10.0.2.15 80 25s
$ kubectl describe ing <ingress-resource-name> -n <namespace-of-ingress-resource> Name: cafe-ingress Namespace: default
Address: 10.0.2.15 Default backend: default-http-backend:80 (172.17.0.5:8080) Rules:
Host Path Backends
---- ---- --------
cafe.com
/tea tea-svc:80 (<none>)
/coffee coffee-svc:80 (<none>)
Annotations:
kubectl.kubernetes.io/last-applied-configuration: {"apiVersion":"networking.k8s.io/v1","kind":"Ingress","metadata":{"annotations":
{},"name":"cafe-ingress","namespace":"default","selfLink":"/apis/networking/v1/namespaces/default/ingresses/cafe-ingress"},"spec":
{"rules":[{"host":"cafe.com","http":{"paths":[{"backend":{"serviceName":"tea-svc","servicePort":80},"path":"/tea"},{"backend":
{"serviceName":"coffee-svc","servicePort":80},"path":"/coffee"}]}}]},"status":{"loadBalancer":{"ingress":
[{"ip":"169.48.142.110"}]}}} Events:
Type Reason Age From Message
---- ------ ---- ---- -------
Normal CREATE 1m ingress-nginx-controller Ingress default/cafe-ingress
Normal UPDATE 58s ingress-nginx-controller Ingress default/cafe-ingress
$ kubectl get pods -n <namespace-of-ingress-controller>
NAME READY STATUS RESTARTS AGE
ingress-nginx-controller-67956bf89d-fv58j 1/1 Running 0 1m
$ kubectl logs -n <namespace> ingress-nginx-controller-67956bf89d-fv58j
--- NGINX Ingress controller Release: 0.14.0 Build:

git-734361d Repository: https://github.com/kubernetes/ingress-nginx
---
....

NEW QUESTION # 32
SIMULATION
Context:
Cluster: prod
Master node: master1
Worker node: worker1
You can switch the cluster/configuration context using the following command:
[desk@cli] $ kubectl config use-context prod
Task:
Analyse and edit the given Dockerfile (based on the ubuntu:18:04 image)
/home/cert_masters/Dockerfile fixing two instructions present in the file being prominent security/best-practice issues.
Analyse and edit the given manifest file
/home/cert_masters/mydeployment.yaml fixing two fields present in the file being prominent security/best-practice issues.
Note: Don't add or remove configuration settings; only modify the existing configuration settings, so that two configuration settings each are no longer security/best-practice concerns.
Should you need an unprivileged user for any of the tasks, use user nobody with user id 65535

Answer:

Explanation:
See the Explanation belowExplanation:
1. For Dockerfile: Fix the image version & user name in Dockerfile
2. For mydeployment.yaml : Fix security contexts
Explanation:
[desk@cli] $ vim /home/cert_masters/Dockerfile
FROM ubuntu:latest # Remove this
FROM ubuntu:18.04 # Add this
USER root # Remove this
USER nobody # Add this
RUN apt get install -y lsof=4.72 wget=1.17.1 nginx=4.2
ENV ENVIRONMENT=testing
USER root # Remove this
USER nobody # Add this
CMD ["nginx -d"]
[desk@cli] $ vim /home/cert_masters/mydeployment.yaml
apiVersion: apps/v1
kind: Deployment
metadata:
creationTimestamp: null
labels:
app: kafka
name: kafka
spec:
replicas: 1
selector:
matchLabels:
app: kafka
strategy: {}
template:
metadata:
creationTimestamp: null
labels:
app: kafka
spec:
containers:

- image: bitnami/kafka
name: kafka
volumeMounts:
- name: kafka-vol
mountPath: /var/lib/kafka
securityContext:
{"capabilities":{"add":["NET_ADMIN"],"drop":["all"]},"privileged": True,"readOnlyRootFilesystem": False, "runAsUser": 65535} # Delete This
{"capabilities":{"add":["NET_ADMIN"],"drop":["all"]},"privileged": False,"readOnlyRootFilesystem": True, "runAsUser": 65535} # Add This resources: {} volumes:
- name: kafka-vol
emptyDir: {}
status: {}
Pictorial View:
[desk@cli] $ vim /home/cert_masters/mydeployment.yaml

NEW QUESTION # 33
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