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Linux Foundation Certified Kubernetes Security Specialist (CKS) Sample Questions (Q30-Q35):

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Linux Foundation Certified Kubernetes Security Specialist (CKS) Sample Questions (Q151-Q156):

NEW QUESTION # 151
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 tne 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?

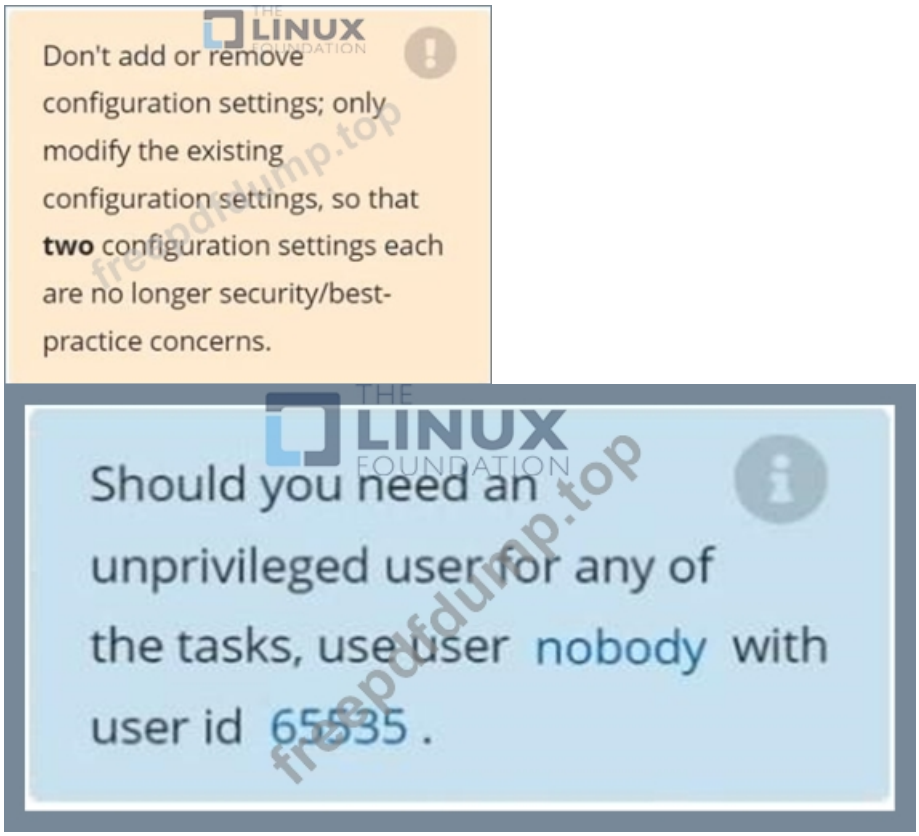
Answer:

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 tne 'kube-apiserver' configuration file, find tne '--insecure-bind-address' flag.
- Set the '--insecure-bind-address' flag to '0.0.0.0' to allow access from all IP addresses.

```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: kube-apiserver
spec:
  replicas: 1
  selector:
    matchLabels:
      app: kube-apiserver
  template:
    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.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
        runAsUser: 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-apisepver' 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 # 152
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:

NEW QUESTION # 153
You are building a custom Kubernetes distribution for your organization- Establish a secure process for building and verifying the integrity of the Kubernetes binaries included in your distribution.

Answer:

Explanation:
Solution (Step by Step):
1. Build Kubernetes from source: Build the Kubernetes binaries from the official source code repository (httpswgithub.com/kubernetes/kubernetesl (https://wwwgoogle.com/url?sa=E&source=gmail&q=https://github.com/kubernetes/kubernetes))- Use a clean build environment and a trusted source for the source code.
2. Implement reproducible builds: Use a build system that supports reproducible builds, such as Bazel or Buildah- This ensures that the same source code always produces the same binary output.
3. Generate and verify checksums: Generate SHA-256 checksums for all built binaries and store them securely. Verity the checksums of the binaries before including them in your distribution.
4. Sign the binaries: Use a code signing certificate to sign the binaries. This allows users to verify the authenticity and integrity of the binaries-
5. Publish the binaries and signatures: Publish the binaries and corresponding signatures in a secure repository. Provide clear instructions for users to
verify the signatures before using the binaries-
6. Use a trusted CI/CD system: use a trusted and secure CI/CD system to automate the build and verification process. This helps to ensure the integrity and security of the build pipeline.

NEW QUESTION # 154
Create a new NetworkPolicy named deny-all in the namespace testing which denies all traffic of type ingress and egress traffic

Answer:

Explanation:
You can create a "default" isolation policy for a namespace by creating a NetworkPolicy that selects all pods but does not allow any ingress traffic to those pods.
---
apiVersion: networking.k8s.io/v1
kind: NetworkPolicy
metadata:
name: default-deny-ingress
spec:
podSelector: {}
policyTypes:
- Ingress
You can create a "default" egress isolation policy for a namespace by creating a NetworkPolicy that selects all pods but does not allow any egress traffic from those pods.
---
apiVersion: networking.k8s.io/v1
kind: NetworkPolicy
metadata:
name: allow-all-egress
spec:
podSelector: {}
egress:
- {}
policyTypes:
- Egress
Default deny all ingress and all egress traffic
You can create a "default" policy for a namespace which prevents all ingress AND egress traffic by creating the following NetworkPolicy in that namespace.
---
apiVersion: networking.k8s.io/v1
kind: NetworkPolicy
metadata:
name: default-deny-all
spec:
podSelector: {}

policyTypes:
- Ingress
- Egress
This ensures that even pods that aren't selected by any other NetworkPolicy will not be allowed ingress or egress traffic.

NEW QUESTION # 155
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:
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"]

```
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 # 156
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