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Linux Foundation Certified Kubernetes Security Specialist (CKS) Sample Questions (Q34-Q39):

NEW QUESTION # 34
SIMULATION
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

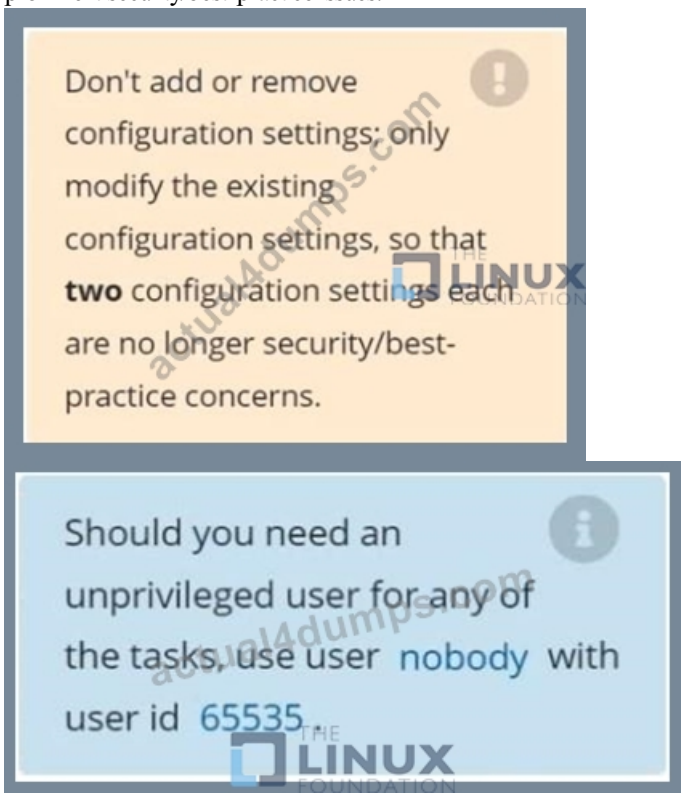
metadata:
name: default-deny-ingress
spec:
podSelector: {}
policyTypes:
- Ingress
You can create a "default" egress isolation policy for a namespace by creating a NetworkPolicy that selects all pods but does not allow any egress traffic from those pods.
---
apiVersion: networking.k8s.io/v1
kind: NetworkPolicy
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 # 35
You are working on a Kubernetes cluster that hosts an application that interacts With sensitive data. You need to perform a static analysis of the application's container image to identify potential security vulnerabilities before deploying it to the cluster.

Answer:

Explanation:
Solution (Step by Step) :
1. cnoose a Static Analysis Tool:
- Select a suitable static analysis tool for container images. Some popular options include:
- Trivy: https://aquasecurity.github.io/trivy/
- Snyk: https://snyk.io/
- Anchore Engine: [https://anchore.com/l(https://anchore.com/)
2 Install and Configure the Tool:
- Install the chosen tool on your machine or integrate it into your CI/CD pipeline.
- Configure the tool to scan the container image for vulnerabilities.
3. Scan the Container Image:
- Use the tool's command-line interface or API to scan the container image.
- Provide the image name or tag as input to the tool.
4. Analyze the Results:
- The tool will generate a report detailing the identified vulnerabilities.
- Review the report and prioritize remediation actions based on the severity and impact of the vulnerabilities.
- Use the tool's features to track the status of vulnerabilities and their remediation.

NEW QUESTION # 36
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:

```
FROM ubuntu:16.04

USER root
RUN apt-get update && \
    apt-get install -yq --no-install-recommends runiti=2.1.2-3ubuntu1 wget=1.17.1-1ubuntu1.5
 \
        chrpath=0.16-1 tzdata=2020a-0ubuntu0.16.04 lsof=4.89+dfsg-0.1 lshw=02.17-1.1ubuntu3
\
        sysstat=11.2.0-1ubuntu0.3 net-tools=1.60-26ubuntu1 numactl=2.0.11-1ubuntu1.1 \
        bzip2=1.0.6-8ubuntu0.2 && \
    apt-get autoremove && apt-get clean && \
    rm -rf /var/lib/apt/lists/* /tmp/* /var/tmp/*

ARG CB_VERSION=6.5.1
ARG CB_RELEASE_URL=https://packages.couchbase.com/releases/6.5.1
ARG CB_PACKAGE=couchbase-server-enterprise_6.5.1-ubuntu16.04_amd64.deb
ARG CB_SHA256=80427193137e5cb5a4795b2675b1c450c1af8cf1a5c634d9177c4161f2047e66

ENV PATH=$PATH:/opt/couchbase/bin:/opt/couchbase/bin/tools:/opt/couchbase/bin/install

RUN groupadd -g 1000 couchbase && useradd couchbase -u 1000 -g couchbase -M

SHELL ["/bin/bash", "-o", "pipefail", "-c"]
RUN export INSTALL_DONT_START_SERVER=1 && \
    wget -N --no-verbose $CB_RELEASE_URL/$CB_PACKAGE && \
    echo "$CB_SHA256  $CB_PACKAGE" | sha256sum -c - && \
    dpkg -i ./$CB_PACKAGE && rm -f ./$CB_PACKAGE
COPY scripts/run /etc/service/couchbase-server/run
RUN chown -R couchbase:couchbase /etc/service

COPY scripts/dummy.sh /usr/local/bin/
RUN ln -s dummy.sh /usr/local/bin/iptables-save && \
    ln -s dummy.sh /usr/local/bin/lvdisplay && \
    ln -s dummy.sh /usr/local/bin/vgdisplay && \
    ln -s dummy.sh /usr/local/bin/pvdisplay

RUN chrpath -r "\$ORIGIN/../lib" /opt/couchbase/bin/curl

COPY scripts/entrypoint.sh /
ENTRYPOINT ["/entrypoint.sh"]
USER nobody
CMD ["couchbase-server"]

EXPOSE 8091 8092 8093 8094 8095 8096 11207 11210 11211 18091 18092 18093 18094 18095 18096
VOLUME /opt/couchbase/var
```

```
candidate@cli:~$ kubectl config use-context KSSC00301
Switched to context "KSSC00301".
candidate@cli:~$ vim KSSC00301/Dockerfile
candidate@cli:~$ vim KSSC00301/deployment.yaml
```

```
          securityContext:
            {'capabilities': {'add': ['NET_BIND_SERVICE'], 'drop': ['all']}, 'privileged': F
alse, 'readOnlyRootFilesystem': True, 'runAsUser': 6[illegible]
          resources:
            limits:
              cpu: 2
              memory: 1024Mi
            requests:
              cpu: 1
              memory: 512Mi
        volumes:
          - name: database-storage
```


NEW QUESTION # 37

Your organization runs a Kubernetes cluster with sensitive dat
a. You want to implement a comprehensive security strategy that involves both Kubernetes features and external security tools. Describe the security best practices and tools you would use to secure the cluster and its applications.

Answer:

Explanation:
Solution (Step by Step) :
1. Kubernetes Security Best Practices:
- Namespaces Use namespaces to isolate applications and prevent cross-contamination
- Pod Security Policies (PSPs): Implement PSPs to restrict capabilities and resources for pods.
- Network Policies: Define network policies to control communication between pods and limit external access.
- RBAC (Role-Based Access Control): Use RBAC to control access to cluster resources based on roles and permissions.
- Service Accounts: Create service accounts with limited privileges for each application.
- Resource Quotas Set resource quotas to limit resource consumption and prevent one application from impacting others.
- Pod Disruption Budgets (PDBs): Ensure availability and resilience by setting up PDBs.
- Security Context: use security context to configure pod security settings at the pod level.
- Least Privilege: Follow the principle of least privilege, granting only the necessary permissions to applications.
2. External Security Tools:
- Vulnerability Scanners: Use vulnerability scanners like Aqua Security, Snyk, and Anchore to identify and remediate vulnerabilities in containers and applications.
- Container Security Platforms: Implement container security platforms like Twistlock, Aqua Security, and Docker Security Scanning for comprehensive
security analysis and runtime protection.
- Network Security Monitoring: Use network security monitoring tools like Wireshark, tcpdump, and Zeek to monitor network traffic for suspicious activity.
- Security Information and Event Management (SIEM): Deploy a SIEM solution like Splunk, Elasticsearch, or Graylog to centralize security logs and
events, enabling real-time threat detection and incident response.
- Intrusion Detection Systems (IDS): Use IDS solutions like Suricata, Snort, and Bro to detect malicious activity within the cluster network.
- Security Orcnestration and Automation (SOAR): Implement SOAR tools like Phantom, Demisto, and ServiceNow to automate security tasks, incident
response, and threat hunting.
3. Other Security Considerations:
- Encryption at Rest: Encrypt sensitive data stored within the cluster, including databases, persistent volumes, and configuration files.
- Encryption in Transit use TLS/SSL to secure communication between cluster components and external services.
- Regular Security Audits: Conduct regular security audits to identity and remediate potential vulnerabilities and ensure that security controls are effective.
- Penetration Testing: Perform penetration testing to evaluate the security posture of the cluster and applications from an attackers perspective.
- Incident Response Planning: Develop a comprehensive incident response plan to handle security incidents efficiently and effectively.
By implementing these security best practices and using a combination of Kubernetes features and external security tools, you can create a more secure and resilient Kubernetes environment to protect sensitive data and applications.

NEW QUESTION # 38
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 # 39
.....

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