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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.

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(CKS)

It is carefully edited and reviewed by our experts. The design of the content conforms to the examination outline. Through the practice of our CKS study materials, you can grasp the intention of the examination organization accurately. The number of its test questions is several times of the traditional problem set, which basically covers all the knowledge points to be mastered in the exam. You only need to review according to the content of our CKS Study Materials, no need to refer to other materials. With the help of our CKS study materials, your preparation process will be relaxed and pleasant.

Linux Foundation Certified Kubernetes Security Specialist (CKS) Sample Questions (Q25-Q30):

NEW QUESTION # 25
SIMULATION

Two tools are pre-installed on the cluster's worker node:
Using the tool of your choice (including any non pre-installed tool), analyze the container's behavior for at least 30 seconds, using filters that detect newly spawning and executing processes.
Store an incident file at /opt/KSRS00101/alerts/details, containing the detected incidents, one per line, in the following format:

```
timestamp,uid/username,proce
ssName
```

The following example shows a properly formatted incident file:

```
01:40:19.601363716,root,init
01:40:20.606013716,nobody,ba
sh
01:40:21.137163716,1000,tar
```

Keep the tool's original timestamp-format as-is.

Make sure to store the incident file on the cluster's worker node.

Answer:

Explanation:
See explanation below
Explanation:

```
candidate@cli:~$ kubectl config use-context KSRS00101
Switched to context "KSRS00101".
candidate@cli:~$ ssh ksrs00101-worker1
Warning: Permanently added '10.240.86.96' (ECDSA) to the list of known hosts.

The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

root@ksrs00101-worker1:~# falco
falco        falco-driver-loader
root@ksrs00101-worker1:~# ls -l /etc/falco/
total 200
-rw-r--r-- 1 root root  12396 Jan 31 16:06 aws_cloudtrail_rules.yaml
-rw-r--r-- 1 root root  11304 Jan 31 16:06 falco.yaml
-rw-r--r-- 1 root root   1136 Jan 31 16:06 falco_rules.local.yaml
-rw-r--r-- 1 root root 132112 Jan 31 16:06 falco_rules.yaml
-rw-r--r-- 1 root root  27289 Jan 31 16:06 k8s_audit_rules.yaml
drwxr-xr-x 2 root root   4096 Feb 16 01:07 rules.available
drwxr-xr-x 2 root root   4096 Jan 31 16:28 rules.d
root@ksrs00101-worker1:~# vim /etc/falco/falco_rules.local.yaml
```

```
# Copyright (C) 2019 The Falco Authors.
#
#
# Licensed under the Apache License, Version 2.0 (the "License");
# you may not use this file except in compliance with the License.
# You may obtain a copy of the License at
#
#     http://www.apache.org/licenses/LICENSE-2.0
#
# Unless required by applicable law or agreed to in writing, software
# distributed under the License is distributed on an "AS IS" BASIS,
# WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
# See the License for the specific language governing permissions and
# limitations under the License.
#

##################
# Your custom rules!
##################

# Add new rules, like this one
# - rule: The program "sudo" is run in a container
#   desc: An event will trigger every time you run sudo in a container
#   condition: evt.type = execve and evt.dir = < and container.id != host and proc.name = sudo
#   output: "Sudo run in container (user=%user.name %container.info parent=%proc.pname cmdline=%proc.cmdline)"
#   priority: ERROR
#   tags: [users, container]

# Or override/append to any rule, macro, or list from the Default Rules
- rule: Container Drift Detected (chmod)
  desc: New executable created in a container due to chmod
  condition: >
    evt.type in (open,openat,create) and
    evt.is_open_exec=true and
    container and
    not runc_writing_exec_fifo and
    not runc_writing_var_lib_docker and
    not user_known_container_drift_activities and
    evt.rawres>=0
  output:
    %evt.time,%user.uid,%proc.name
  priority: ERROR
```

```
root@ksrs00101-worker1:~# vim /etc/falco/falco_rules.local.yaml
root@ksrs00101-worker1:~# systemctl status falco.service
● falco.service - Falco Runtime Security
     Loaded: loaded (/lib/systemd/system/falco.service; disabled; vendor preset: enabled)
     Active: inactive (dead)
root@ksrs00101-worker1:~# systemctl enable falco.service
Created symlink /etc/systemd/system/multi-user.target.wants/falco.service → /lib/systemd/system/falco.service.
root@ksrs00101-worker1:~# systemctl start falco.service
root@ksrs00101-worker1:~# exit
logout
Connection to 10.240.86.96 closed.
candidate@cli:~$ ssh ksrs00101-worker1
Last login: Fri May 20 15:59:48 2022 from 10.240.86.88
root@ksrs00101-worker1:~# vim /etc/falco/falco.yaml
```

NEW QUESTION # 26
You need to implement a secure network policy that allows communication only between specific pods within a namespace. For example, you want to allow communication between pods that have the label 'app=frontend' and pods that have the label 'app=backend', but block all other communication within the namespace.

Answer:

Explanation:
Solution (Step by Step) :
1. Create a NetworkPolicy:
- Define a NetworkP01icy that allows communication between 'frontend' and 'backend' pods, but blocks other communication within the namespace.

```
ind: NetworkPolicy
etadata:
  name: allow-frontend-backend
  namespace: my-namespace
pec:
  podSelector: {}  # Apply to all pods in the namespace
  ingress:
  - from:
    - podSelector:
        matchLabels:
          app: frontend
    - podSelector:
        matchLabels:
          app: backend
    ports:
    - protocol: TCP
      port: 80
  egress:
  - to:
    - podSelector:
        matchLabels:
          app: frontend
    - podSelector:
        matchLabels:
          app: backend
    ports:
    - protocol: TCP
```

2. Create a Frontend Pod: - Create a Pod with the label 'app=frontend'.

```
apiVersion: v1
kind: Pod
metadata:
  name: frontend-pod
  namespace: my-namespace
  labels:
    app: frontend
spec:
  containers:
  - name: nginx
    image: nginx:1.14.2
    ports:
    - containerPort: 80
```

3. Create a Backend Pod: - Create a Pod With the label 'app=backend'.

```
apiVersion: v1
kind: Pod
metadata:
  name: backend-pod
  namespace: my-namespace
  labels:
    app: backend
spec:
  containers:
  - name: nginx
    image: nginx:1.14.2
    ports:
    - containerPort: 80
```

4. Apply the YAML files: - Apply the created YAML files using ' kubectl apply -f 5. Verify the Network Policy: - Try to connect from the 'frontend-pod' to the 'backend-pod' (e.g., using ' kubectl exec -it frontend-pod bash' and 'curl backend-pod:80')- It should succeed. - Try to connect from the 'frontend-pod' to another pod in the namespace that doesn't have the Sapp-backend' label. This connection should be blocked.

NEW QUESTION # 27

You must complete this task on the following cluster/nodes:
Cluster: trace
Master node: master
Worker node: worker1
You can switch the cluster/configuration context using the following command:
[desk@cli] $ kubectl config use-context trace
Given: You may use Sysdig or Falco documentation.
Task:
Use detection tools to detect anomalies like processes spawning and executing something weird frequently in the single container belonging to Pod tomcat.
Two tools are available to use:
1. falco
2. sysdig
Tools are pre-installed on the worker1 node only.

Analyse the container's behaviour for at least 40 seconds, using filters that detect newly spawning and executing processes.
Store an incident file at /home/cert_masters/report, in the following format:
[timestamp],[uid],[processName]
Note: Make sure to store incident file on the cluster's worker node, don't move it to master node.

Answer:

Explanation:
$vim /etc/falco/falco_rules.local.yaml
- rule: Container Drift Detected (open+create)
desc: New executable created in a container due to open+create
condition: >
evt.type in (open,openat,creat) and
evt.is_open_exec=true and
container and
not runc_writing_exec_fifo and
not runc_writing_var_lib_docker and
not user_known_container_drift_activities and
evt.rawres>=0
output: >
%evt.time,%user.uid,%proc.name # Add this/Refer falco documentation
priority: ERROR
$kill -1 <PID of falco>
Explanation
[desk@cli] $ ssh node01
[node01@cli] $ vim /etc/falco/falco_rules.yaml
search for Container Drift Detected & paste in falco_rules.local.yaml
[node01@cli] $ vim /etc/falco/falco_rules.local.yaml
- rule: Container Drift Detected (open+create)
desc: New executable created in a container due to open+create
condition: >
evt.type in (open,openat,creat) and
evt.is_open_exec=true and
container and
not runc_writing_exec_fifo and
not runc_writing_var_lib_docker and
not user_known_container_drift_activities and
evt.rawres>=0
output: >
%evt.time,%user.uid,%proc.name # Add this/Refer falco documentation
priority: ERROR
[node01@cli] $ vim /etc/falco/falco.yaml

NEW QUESTION # 28
You are working on a Kubernetes cluster and need to analyze the security posture of a user workload running within a container image. The image is built from a Dockefflle tnat pulls code from a public GitHub repository. You need to identify potential security vulnerabilities in the codebase using a static analysis tool.

Answer:

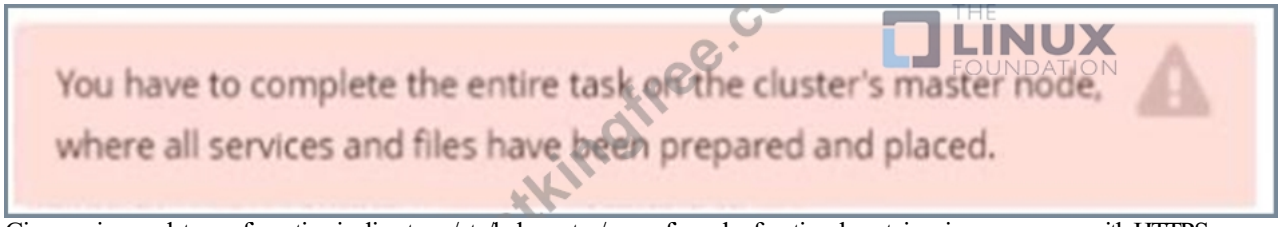
Explanation:
Solution (Step by Step) :
1. Identify the Code Repository:
- Access the public GitHub repository where the source code for the user workload resides.

2. Install KubeLinter:
- Use 'pip install kube-linter' to install KubeLinter on your machine.
3. Configure KubeLinter:
- Create a configuration file for KubeLinter (e.g., 'kube-linter.yaml') with the following content:

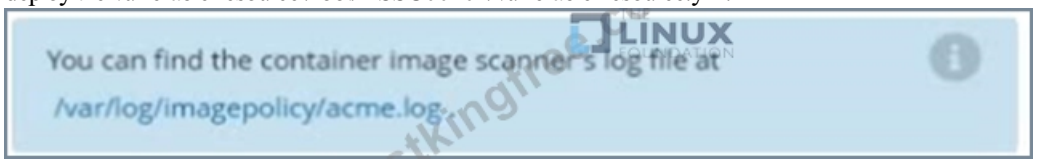
```
checks:
  - code-analysis:
      # Use the appropriate language and analysis rules
      language: "python"  # Replace with the actual programming language used
      rules:
        - "bandit"
        - "pylint"
        - "mypy"
```

4. Run KubeLinter. - Execute the following command to analyze the source code: bash kube-linter --config kube-linter.yaml --path - Replace '/path/to/your/repository/' with the actual path to the GitHub repository's codebase. 5. Analyze the Results: - KubeLinter will output a report highlighting potential security vulnerabilities, coding best practices violations, and other issues detected in the codebase. - Review the findings carefully and prioritize remediation actions based on the severity and impact of the vulnerabilities.

NEW QUESTION # 29
Context
A container image scanner is set up on the cluster, but it's not yet fully integrated into the cluster s configuration. When complete, the container image scanner shall scan for and reject the use of vulnerable images.
Task



Given an incomplete configuration in directory /etc/kubernetes/epconfig and a functional container image scanner with HTTPS endpoint https://wakanda.local:8081 /image_policy :
1. Enable the necessary plugins to create an image policy
2. Validate the control configuration and change it to an implicit deny
3. Edit the configuration to point to the provided HTTPS endpoint correctly Finally, test if the configuration is working by trying to deploy the vulnerable resource /root/KSSC00202/vulnerable-resource.yml.



Answer:

Explanation:

```
  "imagePolicy": {
    "kubeConfigFile": "/etc/kubernetes/epconfig/kubeconfig.yaml",
    "allowTTL": 50,
    "denyTTL": 50,
    "retryBackoff": 500,
    "defaultAllow": false
  }
```

```
root@kssc00202-master:~# vim /etc/kubernetes/epconfig/admission_configuration.json
root@kssc00202-master:~# vim /etc/kubernetes/epconfig/admission_configuration.json
root@kssc00202-master:~# vim /etc/kubernetes/epconfig/kubeconfig.yaml
```

```
apiVersion: v1
clusters:
- cluster:
    certificate-authority: /etc/kubernetes/epconfig/webhook.pem # CA for verifying the remote service.
    server: https://wakanda.local:8081/image_policy
  name: kubernetes
contexts:
- context:
    cluster: kubernetes
    user: kubernetes-admin
  name: kubernetes-admin@kubernetes
current-context: kubernetes-admin@kubernetes
kind: Config
preferences: {}
users:
- name: kubernetes-admin
  user:
    client-certificate: /etc/kubernetes/epconfig/apiserver-client.pem
    client-key: /etc/kubernetes/epconfig/apiserver-client-key.pem
```

```
root@kssc00202-master:~# vim /etc/kubernetes/epconfig/admission_configuration.json
root@kssc00202-master:~# vim /etc/kubernetes/epconfig/admission_configuration.json
root@kssc00202-master:~# vim /etc/kubernetes/epconfig/kubeconfig.yaml
root@kssc00202-master:~# vim /etc/kubernetes/manifests/kube-apiserver.yaml p
```

```
apiVersion: v1
kind: Pod
metadata:
  annotations:
    kubeadm.kubernetes.io/kube-apiserver.advertise-address.endpoint: 10.177.80.12:6443
  creationTimestamp: null
  labels:
    component: kube-apiserver
    tier: control-plane
  name: kube-apiserver
  namespace: kube-system
spec:
  containers:
    - command:
        - kube-apiserver
        - --advertise-address=10.177.80.12
        - --allow-privileged=true
        - --authorization-mode=Node,RBAC
        - --client-ca-file=/etc/kubernetes/pki/ca.crt
        - --enable-admission-plugins=NodeRestriction
        - --enable-bootstrap-token-auth=true
        - --etcd-cafile=/etc/kubernetes/pki/etcd/ca.crt
        - --etcd-certfile=/etc/kubernetes/pki/apiserver-etcd-client.crt
        - --etcd-keyfile=/etc/kubernetes/pki/apiserver-etcd-client.key
        - --etcd-servers=https://127.0.0.1:2379
        - --kubelet-client-certificate=/etc/kubernetes/pki/apiserver-kubelet-client.crt
        - --kubelet-client-key=/etc/kubernetes/pki/apiserver-kubelet-client.key
        - --kubelet-preferred-address-types=InternalIP,ExternalIP,Hostname
        - --proxy-client-cert-file=/etc/kubernetes/pki/front-proxy-client.crt
        - --proxy-client-key-file=/etc/kubernetes/pki/front-proxy-client.key
        - --requestheader-allowed-names=front-proxy-client
        - --requestheader-client-ca-file=/etc/kubernetes/pki/front-proxy-ca.crt
        - --requestheader-extra-headers-prefix=X-Remote-Extra-
"/etc/kubernetes/manifests/kube-apiserver.yaml" 135L, 4626C
```

```
root@kssc00202-master:~# vim /etc/kubernetes/manifests/kube-apiserver.yaml p
2 files to edit
root@kssc00202-master:~# rm -rf p
root@kssc00202-master:~# vim /etc/kubernetes/manifests/kube-apiserver.yaml
```

```
apiVersion: v1
kind: Pod
metadata:
  annotations:
    kubeadm.kubernetes.io/kube-apiserver.advertise-address.endpoint: 10.177.80.12:6443
  creationTimestamp: null
  labels:
    component: kube-apiserver
    tier: control-plane
  name: kube-apiserver
  namespace: kube-system
spec:
  containers:
    - command:
        - kube-apiserver
        - --advertise-address=10.177.80.12
        - --allow-privileged=true
        - --authorization-mode=Node,RBAC
        - --client-ca-file=/etc/kubernetes/pki/ca.crt
        - --enable-admission-plugins=NodeRestriction,ImagePolicyWebHook
        - --admission-control-config-file=/etc/kubernetes/epconfig/admin.conf
        - --enable-bootstrap-token-auth=true
        - --etcd-cafile=/etc/kubernetes/pki/etcd/ca.crt
        - --etcd-certfile=/etc/kubernetes/pki/apiserver-etcd-client.crt
        - --etcd-keyfile=/etc/kubernetes/pki/apiserver-etcd-client.key
        - --etcd-servers=https://127.0.0.1:2379
        - --kubelet-client-certificate=/etc/kubernetes/pki/apiserver-kubelet-client.crt
        - --kubelet-client-key=/etc/kubernetes/pki/apiserver-kubelet-client.key
        - --kubelet-preferred-address-types=InternalIP,ExternalIP,Hostname
        - --proxy-client-cert-file=/etc/kubernetes/pki/front-proxy-client.crt
        - --proxy-client-key-file=/etc/kubernetes/pki/front-proxy-client.key
        - --requestheader-allowed-names=front-proxy-client
        - --requestheader-client-ca-file=/etc/kubernetes/pki/front-proxy-ca.crt
```

```
root@kssc00202-master:~# rm -f p
root@kssc00202-master:~# vim /etc/kubernetes/manifests/kube-apiserver.yaml
root@kssc00202-master:~# systemctl daemon-reload
root@kssc00202-master:~#
root@kssc00202-master:~#
root@kssc00202-master:~#
root@kssc00202-master:~# systemctl restart kubelet.service
root@kssc00202-master:~# systemctl enable kubelet.service
root@kssc00202-master:~#
root@kssc00202-master:~#
root@kssc00202-master:~#
root@kssc00202-master:~#
root@kssc00202-master:~# ls
KSSC00202  snap
root@kssc00202-master:~# cat KSSC00202/vulnerable-resource.yml
```

NEW QUESTION # 30

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