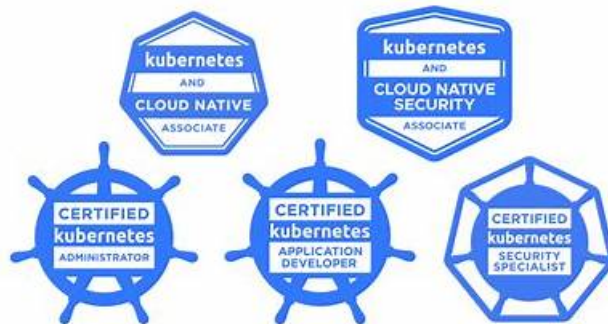


Linux Foundation CKS学習範囲 & CKS日本語資格取得



BONUS!!! CertShiken CKSダンプの一部を無料でダウンロード: <https://drive.google.com/open?id=1Q4NnZ5Lv9JnM0gtqksq5HSrjLvgIe-4>

数千人の専門家で構成された権威ある制作チームが、CKS学習の質問を理解し、質の高い学習体験を楽しんでいます。試験概要と現在のポリシーの最近の変更に応じて、CKSテストガイドの内容を随時更新します。また、CKS試験の質問は、わかりにくい概念を簡素化して学習方法を最適化し、習熟度を高めるのに役立ちます。さらに、CKSテストガイドを使用すると、試験を受ける前に20~30時間の練習で準備時間を短縮できることは間違いありません。

クライアントが当社のCKSガイド資料の習熟度を理解し、テストの準備を整えるために、テストプラクティスソフトウェアをクライアントに提供します。CKS実践ガイドのテスト実践ソフトウェアは、実際のテスト問題に基づいており、そのインターフェースは使いやすいです。テスト練習ソフトウェアは、実際のテストを刺激し、複数の練習モデル、CKSトレーニング教材の練習の履歴記録、自己評価機能を高めるテストスキームを向上させます。

>> Linux Foundation CKS学習範囲 <<

CKS日本語資格取得、CKS対応内容

CertShikenの助けのもとで君は大量のお金と時間を費やさなくても復讐にLinux FoundationのCKS認定試験に合格のは大丈夫でしょう。ソフトの問題集はCertShikenが実際問題によって、テストの問題と解答を分析して出来上がりました。CertShikenが提供したLinux FoundationのCKSの問題集は真実の試験に緊密な相似性があります。

Linux Foundation Certified Kubernetes Security Specialist (CKS) 認定 CKS 試験問題 (Q50-Q55):

質問 # 50

You are configuring a Kubernetes cluster with a deployment named 'secure-app' that uses a secret named 'my-secret to access sensitive information You need to implement an Admission Controller webhook to enforce a policy that prevents the deployment from starting if the 'my-secret secret is not present in the cluster.

正解:

解説:

Solution (Step by Step) :

1. Create a Deployment with a Secret Dependency:
 - Create a Deployment YAML file named 'secure-app-deployment.yaml that depends on the 'my-secret secret.
2. Create the Admission Controller Webhook Server: - You will need to create a server that will implement the Admission Controller webhook logic This can be a simple web server written in any language that can receive and process AdmissionReview requests. - Here's an example in Node.js using the 'express' framework:
3. Configure the Admission Controller Webhook in Kubernetes: - Create a ValidatingWebhookConfiguration YAML file named

'secure-app-webhook.yaml that specifies the webhook configuration:

□ - Create the Webhook Service: - Create a Service YAML file named 'secure-app-webhook-service.yaml' to expose the webhook server:k

□ 4. Apply the Webhook Configuration and Service: - Apply the YAML files using kubectl apply -f secure-app-webhook.yaml secure-app-webhook-service.yaml 5. Test the Admission Controller: - Try creating the 'secure-app' deployment without the 'my-secret' secret. The deployment creation should fail, and you should see the message from the webhook server - Create the 'my-secret' secret and then try creating the 'secure-app' deployment again. The deployment should now be created successfully.

質問 # 51

Fix all issues via configuration and restart the affected components to ensure the new setting takes effect.

Fix all of the following violations that were found against the API server:- a. Ensure that the RotateKubeletServerCertificate argument is set to true.

b. Ensure that the admission control plugin PodSecurityPolicy is set.

c. Ensure that the --kubelet-certificate-authority argument is set as appropriate.

Fix all of the following violations that were found against the Kubelet:- a. Ensure the --anonymous-auth argument is set to false.

b. Ensure that the --authorization-mode argument is set to Webhook.

Fix all of the following violations that were found against the ETCD:-

a. Ensure that the --auto-tls argument is not set to true

b. Ensure that the --peer-auto-tls argument is not set to true

Hint: Take the use of Tool Kube-Bench

正解:

解説:

Fix all of the following violations that were found against the API server:- a. Ensure that the RotateKubeletServerCertificate argument is set to true.

apiVersion: v1

kind: Pod

metadata:

creationTimestamp: null

labels:

component: kubelet

tier: control-plane

name: kubelet

namespace: kube-system

spec:

containers:

- command:

- kube-controller-manager

+ - --feature-gates=RotateKubeletServerCertificate=true

image: gcr.io/google_containers/kubelet-amd64:v1.6.0

livenessProbe:

failureThreshold: 8

httpGet:

host: 127.0.0.1

path: /healthz

port: 6443

scheme: HTTPS

initialDelaySeconds: 15

timeoutSeconds: 15

name: kubelet

resources:

requests:

cpu: 250m

volumeMounts:

- mountPath: /etc/kubernetes/

name: k8s

readOnly: true

- mountPath: /etc/ssl/certs

```

name: certs
- mountPath: /etc/pki
name: pki
hostNetwork: true
volumes:
- hostPath:
path: /etc/kubernetes
name: k8s
- hostPath:
path: /etc/ssl/certs
name: certs
- hostPath:
path: /etc/pki
name: pki

```

b. Ensure that the admission control plugin PodSecurityPolicy is set.

```
audit: "/bin/ps -ef | grep $apiserverbin | grep -v grep"
```

tests:

test_items:

```
- flag: "--enable-admission-plugins"
```

compare:

op: has

```
value: "PodSecurityPolicy"
```

set: true

remediation: |

Follow the documentation and create Pod Security Policy objects as per your environment.

Then, edit the API server pod specification file \$apiserverconf

on the master node and set the --enable-admission-plugins parameter to a value that includes PodSecurityPolicy :

```
--enable-admission-plugins=...,PodSecurityPolicy,...
```

Then restart the API Server.

scored: true

c. Ensure that the --kubelet-certificate-authority argument is set as appropriate.

```
audit: "/bin/ps -ef | grep $apiserverbin | grep -v grep"
```

tests:

test_items:

```
- flag: "--kubelet-certificate-authority"
```

set: true

remediation: |

Follow the Kubernetes documentation and setup the TLS connection between the apiserver and kubelets. Then, edit the API server pod specification file

\$apiserverconf on the master node and set the --kubelet-certificate-authority parameter to the path to the cert file for the certificate authority.

```
--kubelet-certificate-authority=<ca-string>
```

scored: true

Fix all of the following violations that were found against the ETCD:-

a. Ensure that the --auto-tls argument is not set to true

Edit the etcd pod specification file \$etcdconf on the master node and either remove the --auto-tls parameter or set it to false. --auto-

tls=false b. Ensure that the --peer-auto-tls argument is not set to true Edit the etcd pod specification file \$etcdconf on the master

node and either remove the --peer-auto-tls parameter or set it to false. --peer-auto-tls=false

質問 # 52

SIMULATION

Use the kubesecc docker images to scan the given YAML manifest, edit and apply the advised changes, and passed with a score of 4 points.

```
kubesecc-test.yaml
```

```
apiVersion: v1
```

```
kind: Pod
```

```
metadata:
```

```
name: kubesecc-demo
```

```
spec:
```

containers:

- name: kubesecc-demo

image: gcr.io/google-samples/node-hello:1.0

securityContext:

readOnlyRootFilesystem: true

Hint: docker run -i kubesecc/kubesecc:512c5e0 scan /dev/stdin < kubesecc-test.yaml

- **A. Send us the Feedback on it.**

正解: A

質問 # 53

SIMULATION

Context

A CIS Benchmark tool was run against the kubeadm-created cluster and found multiple issues that must be addressed immediately.

Task

Fix all issues via configuration and restart the affected components to ensure the new settings take effect.

Fix all of the following violations that were found against the API server:

Fix all of the following violations that were found against the Kubelet:

Fix all of the following violations that were found against etcd:

正解:

解説:

See the Explanation below

Explanation:

□
□
□

質問 # 54

Using the runtime detection tool Falco, Analyse the container behavior for at least 20 seconds, using filters that detect newly spawning and executing processes in a single container of Nginx.

- **A. store the incident file at /opt/falco-incident.txt, containing the detected incidents. one per line, in the format**

正解: A

解説:

[timestamp],[uid],[processName]

質問 # 55

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CKS日本語資格取得: <https://www.certshiken.com/CKS-shiken.html>

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