

# CKAD題庫最新資訊 - CKAD學習資料



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P.S. Fast2test在Google Drive上分享了免費的2026 Linux Foundation CKAD考試題庫：<https://drive.google.com/open?id=1Rd6XALcr4iaRKteKUYy7oQ3T0cjP6UoO>

我們Fast2test Linux Foundation的CKAD考試認證資料是全球所有網站不能夠媲美的，當然這不僅僅是品質的問題，我們的品質肯定是沒得說，更重要的是我們Fast2test Linux Foundation的CKAD考試認證資料適合所有的IT考試認證，它的使用性達到各個IT領域，所以我們Fast2test網站得到很多考生的關注，他們相信我們，依賴我們，這也是我們Fast2test網站所擁有的實力所體現之處，我們的考試培訓資料能讓你買了之後不得不向你的朋友推薦，並讚不絕口，因為它真的對你們有很大的幫助。

這幾年IT行業發展非常之迅速，那麼學IT的人也如洪水猛獸般迅速多了起來，他們為了使自己以後有所作為而不斷的努力，Linux Foundation的CKAD考試認證是IT行業必不可少的認證，許多人為想通過此認證而感到苦惱。今天我告訴大家一個好辦法，就是選擇Fast2test Linux Foundation的CKAD考試認證培訓資料，它可以幫助你們通過考試獲得認證，而且我們可以保證通過率100%，如果沒有通過，我們將保證退還全部購買費用，不讓你們有任何損失。

>> CKAD題庫最新資訊 <<

## CKAD學習資料 - 最新CKAD考古題

很多人都認為要通過一些高難度的CKAD認證考試是需要精通很多Linux Foundation專業知識。只有掌握很全面的Linux Foundation知識的人才會有資格去報名參加的考試。其實現在有很多方法可以幫你彌補你的知識不足的，一樣能通過CKAD認證考試，也許比那些專業知識相當全面的人花的時間和精力更少，正所謂條條大路通羅馬。

### 最新的 Kubernetes Application Developer CKAD 免費考試真題 (Q48-Q53):

#### 問題 #48

You are developing a container image for a .NET Core application that requires a specific version of the .NET Core SDK to be installed. How would you ensure that the correct SDK version is available within your Docker image during the build process?

答案：

解題說明：

See the solution below with Step by Step Explanation.

Explanation:

Solution (Step by Step) :

1). Choose .NET SDK Base Image:

- Select a base image that includes the desired .NET Core SDK version from Docker Hub.

- Example (for .NET core 3.1 SDK):

```
dockerfile
```

```
FROM mcr-microsoft.com/dotnet/sdk:3.1
```

2. Copy Application Code:

- Copy your .NET Core application code into the Docker image.

- Example:

```
dockerfile
```

```
COPY
```

3. Build the Application:

- Use the 'RIJN' instruction to build your .NET Core application using the 'dotnet publish' command.

- Example:

dockerfile

RUN dotnet publish -c Release -o /app

4. Define Runtime Image (Optional):

- Create a second stage Dockerfile that uses a smaller base image, copying only the published application files.
- This optimizes the final image size.

- Example:

dockerfile

FROM mcr-microsoft.com/dotnet/aspnet:3.1

COPY -from=build /app /app

WORKDIR /app

ENTRYPOINT ["dotnet", "your-app.dll"]

5. Build and Deploy:

- Use 'docker build' to construct the final Docker image.
- Deploy this image to your Kubernetes cluster.

#### 問題 #49

You are running a Deployment for a database service with 3 replicas. You want to ensure that only one pod is updated at a time, but you need to guarantee that the database service remains available throughout the update process. How would you configure the Deployment to achieve this?

答案:

解題說明:

See the solution below with Step by Step Explanation.

Explanation:

Solution (Step by Step) :

1. Update the Deployment YAMLI

- Update the 'replicas' to 3.
- Define 'maxUnavailable: 1' and 'maxSurge: 0' in the 'strategy-rollingupdate' section to control the rolling update process.
- Use a 'readiness probe' within your container definition to ensure that the pod is considered ready only when the database is successfully started and connected.
- Configure a 'strategy-type' to 'RollingUpdate' to trigger a rolling update when the deployment is updated.

```

apiVersion: apps/v1
kind: Deployment
metadata:
  name: database-deployment
spec:
  replicas: 3
  selector:
    matchLabels:
      app: database
  template:
    metadata:
      labels:
        app: database
    spec:
      containers:
        - name: database
          image: database-image:latest
          imagePullPolicy: Always
          readinessProbe:
            tcpSocket:
              port: 5432
            initialDelaySeconds: 15
            periodSeconds: 5
      strategy:
        type: RollingUpdate
        rollingUpdate:
          maxUnavailable: 1
          maxSurge: 0

```

2. Create the Deployment: - Apply the updated YAML file using 'kubectl apply -f database-deployment-yamp 3. Verify the Deployment - Check the status of the deployment using 'kubectl get deployments database-deployment to confirm the rollout and updated replica count. 4. Trigger the Automatic Update: - Push a new image to the Docker Hub repository. 5. Monitor the Deployment - Use 'kubectl get pods -l to monitor the pod updates during the rolling update process. You will observe that only one pod is terminated at a time. The readiness probe will ensure that a new pod is only considered ready when it's successfully connected to the database. 6. Check for Successful Update: - Once the deployment is complete, use 'kubectl describe deployment database-deployment to see that the 'updatedReplicas' field matches the 'replicas' field, indicating a successful update.,

## 問題 #50

You are building a container image for a Python application that requires a specific version of the 'requests' library. Explain how you would incorporate the 'requests' library into your Dockerfile and ensure that the application can access and use it within the container.

答案:

解題說明:

See the solution below with Step by Step Explanation.

Explanation:

Solution (Step by Step) :

1. Install the 'requests' library in the Dockerfile:

- Use the 'RUN' instruction in your Dockerfile to install the library.
- Utilize the 'pip' package manager to install the specific version of requests required by your application.

```
FROM python:3.9
WORKDIR /app
COPY requirements.txt .
RUN pip install -r requirements.txt
COPY . .
CMD ["python", "app.py"]
```

- Replace with the desired Python base image. - Ensure that the 'requirements.txt' file contains the required dependency, specifically 'requests' and its version. - Include the 'COPY' commands to transfer your application code and other files to the container. 2. Import and use the 'requests' library in your Python application: - In your Python application code (app.py in this example), import the 'requests' library. - Use the imported library functions to make HTTP requests as needed in your application logic.

```
import requests

def main():
    response = requests.get("https://example.com")
    print(response.status_code)

if __name__ == "__main__":
    main()
```

3. Build the Docker image: - Execute the 'docker build' command in your terminal, specifying the Dockerfile location and the image tag. `docker build -t my-python-app .` 4. Run the container: - Use the 'docker run' command to launch the container, providing the image name. `docker run -it my-python-app` - The container will run your Python application, and the 'requests' library will be available for use within the container environment.

### 問題 #51

You are deploying a new microservice called 'payment-service' that requires access to a confidential data volume mounted at '/sensitive-data'. This volume is mounted as a Secret in Kubernetes. The 'payment-service' container should only be allowed to access this volume. You need to configure the PodSecurityPolicy to enforce this access restriction.

答案:

解題說明:

See the solution below with Step by Step Explanation.

Explanation:

Solution (Step by Step) :

1). Create a PodSecurityPolicy:

- Create a YAML file for your PodSecurityPolicy.
- Define the 'apiVersion' and 'kind'
- Add a 'metadata' section with a unique name for the policy (e.g., 'payment-service-psp').
- In the 'spec' section:
  - Set 'runAsUser' to 'RunAsAny' to allow any user ID.
  - Set 'readOnlyRootFilesystem' to 'false' to allow modifications within the container.
  - Set 'hostNetwork' to 'false' to avoid using the host's network.
  - Set 'allowPrivilegeEscalation' to 'false' to prevent privilege escalation.
- In the 'volumes' section
  - Define 'hostPath' as the allowed volume type with the specified path '/sensitive-data'

```

apiVersion: policy/v1beta1
kind: PodSecurityPolicy
metadata:
  name: payment-service-psp
spec:
  runAsUser: RunAsAny
  readOnlyRootFilesystem: false
  hostNetwork: false
  allowPrivilegeEscalation: false
  volumes:
  - hostPath:
    path: "/sensitive-data"

```

2. Apply the PodSecurityPolicy: - Use 'kubectl apply -f payment-service-psp.yaml' to create the PodSecurityPolicy in your cluster.

3. Create a ServiceAccount: - Create a new ServiceAccount for the 'payment-service' deployment. - Apply the ServiceAccount YAML file using 'kubectl apply -f payment-service-sa.yaml' 4. Bind the PodSecurityPolicy to the ServiceAccount: - Create a RoleBinding to bind the 'payment-service-psp' to the 'payment-service' ServiceAccount - Apply the RoleBinding YAML file using 'kubectl apply -f payment-service-rb.yaml'

```

apiVersion: rbac.authorization.k8s.io/v1
kind: RoleBinding

```

```

metadata:
  name: payment-service-binding
roleRef:
  apiGroup: rbac.authorization.k8s.io
  kind: Role
  name: payment-service-psp
subjects:
- kind: ServiceAccount
  name: payment-service
  namespace: default

```

5. Deploy the Payment Service: - Create the 'payment-service' Deployment configuration. - Specify the 'payment-service' ServiceAccount in the field. - Define the 'volumeMount' for the 'sensitive-data' volume and specify the corresponding 'volume' in the 'volumes' section. - Ensure the volume is mounted as a Secret from the 'default' namespace.

```

apiVersion: apps/v1
kind: Deployment
metadata:
  name: payment-service
spec:
  replicas: 1
  selector:
    matchLabels:
      app: payment-service
  template:
    metadata:
      labels:
        app: payment-service
    spec:
      serviceAccountName: payment-service
      containers:
      - name: payment-service
        image: your-image:latest
        volumeMounts:
        - name: sensitive-data
          mountPath: /sensitive-data
          readOnly: false
      volumes:
      - name: sensitive-data
        secret:
          secretName: sensitive-data-secret

```

- The PodSecurityPolicy restricts the behavior of pods and their containers. - 'runAsUser', 'readOnlyRootFilesystem', 'hostNetwork', and 'allowPrivilegeEscalation' define various security constraints for the container. - The 'volumes' section specifies allowed volume types (e.g., 'hostPath') and paths. - The ServiceAccount binds the PodSecurityPolicy to the deployment. - The RoleBinding assigns the PodSecurityPolicy to the ServiceAccount, effectively enforcing the specified constraints. This configuration ensures that only the 'payment-service' deployment can access the confidential data volume mounted as a Secret in Kubernetes.

問題 #52

Set configuration context:



```
[student@node-1]# kubectl config  
use-context k8s
```

## Context

You sometimes need to observe a pod's logs, and write those logs to a file for further analysis.

## Task

Please complete the following:

- \* Deploy the counter pod to the cluster using the provided YAMLspec file at /opt/KDOB00201/counter.yaml
- \* Retrieve all currently available application logs from the running pod and store them in the file /opt/KDOB00201/log\_Output.txt, which has already been created

答案:

解題說明:

See the solution below.

Explanation

Solution:

```
student@node-1:~$ kubectl create -f /opt/KDOB00201/counter.yaml  
pod/counter created  
student@node-1:~$ kubectl get pods  
NAME          READY   STATUS    RESTARTS   AGE  
counter       1/1     Running   0           10s  
liveness-http 1/1     Running   0           6h45m  
nginx-101     1/1     Running   0           6h46m  
nginx-configmap 1/1     Running   0           107s  
nginx-secret  1/1     Running   0           7m21s  
poller        1/1     Running   0           6h46m  
student@node-1:~$ kubectl logs counter  
1: 2b305101817ae25ca60ae46510fb6d11  
2: 3649cf2eae95ab680d8a0f1952891af4  
3: 66c8bd4d8f706f9142a0984a2a44ede  
4: 40d3a9c8e46f553bb4828f8e5c8d038  
5: 390442d2530a90c3602901e3fe998ac  
6: b71d95187417e139effb33a877611040  
7: 66a8e55a6491e756d2d0549a16ab90a7  
8: ff2b3d583b64125d2f9129e443bb37ff  
9: b6c6a12b6e77944ed8baanf6c242dae4  
10: bfcc9a894a0604fc4b814b37d0a200a4  
student@node-1:~$ kubectl logs counter > /opt/KDOB00201/log_output.txt  
student@node-1:~$  
  
student@node-1:~$ kubectl logs counter > /opt/KDOB00201/log_output.txt  
student@node-1:~$ kubectl logs counter > /opt/KDOB00201/log_output.txt  
student@node-1:~$ cat /opt/KDOB00201/log_output.txt
```

```
Readme > Web Terminal THE LINUX FOUNDATION

student@node-1:~$ kubectl logs counter > /opt/KDOB00201/log_output.txt
student@node-1:~$ cat /opt/KDOB00201/log_output.txt
1: 2b305101817ae25ca60ae46510fb6d11
2: 3648cf2eae95ab680dba8f195f891af4
3: 65c8bbd4dbf70bf81f2a0984a3a44ede
4: 40d3a9c8e46f5533bb4828f8e5c8d038
5: 390442d2530a90c3602901e3fe999ac8
6: b71d95187417e139effb33af77681040
7: 66a8e55a6491e756d2d0549ad6ab90a7
8: ff2b3d583b64125d2f9129c443bb37ff
9: b6c6a12b6e77944ed8baaf6c242dae4
10: bfcc9a894a0604fc4b814b37d0a200a4
11: 5493cd16a1790a5fb9512b0c9d4c5dd1
12: 03f169e93e6143438e6dfe4ecb3cc9ed
13: 764b37fe611373c42d0b47154041f9eb
14: 1a56fbc1896b0ee6394136166281819c
15: ecc492eb17715de090c47345e9fd9883
16: 7974a6bec0fb44b6b8bbf70aaf6b74
17: 9ae01bef01748b12cc9f97a519f72cd6
18: 23fb22ee34d4272e4c9e005f1774515f
19: ec7e1a5d314da9a0ad45d53be5a7acae
20: 0bccdd8ee02cd42029e8162cd1c1197c
21: d6851ea43546216b95bcb81ced997102
22: 7ed9a38ea8bf0d86206569481442af44
23: 29b8416ddc63dbfcb987ab3c8198e9fe
24: 1f2062001df51a108ab25010f506716f
student@node-1:~$
```

### 問題 #53

.....

作為IT認證考試相關資料的專業提供者，Fast2test一直在為考生們提供優秀的參考資料，並且幫助了數不清的人通過了考試。Fast2test的CKAD考古題可以給你通過考試的自信，讓你輕鬆地迎接考試。利用這個考古題，只要你經過很短時間段額準備你就可以通過考試。覺得不可思議嗎？但是，這是真的。只要你用，Fast2test就可以讓你看到奇跡的發生。

CKAD學習資料: <https://tw.fast2test.com/CKAD-premium-file.html>

現在有許多IT培訓機構都能為你提供Linux Foundation CKAD 認證考試相關的培訓資料，但通常考生通過這些網站得不到詳細的資料，最新的CKAD考題資料不僅能幫助考生提高IT技能，還能保證你的利益，提供給你最好的服務，Fast2test將成為你一個值得信賴的伙伴，我們的Linux Foundation CKAD 題庫的命中率高達100%，可以保證每個使用過CKAD 題庫的人都順利通過考試，使用Fast2test的CKAD考古題以後你不僅可以一次輕鬆通過考試，還可以掌握考試要求的技能，Fast2test網站幫助考生通過CKAD考試獲得認證，不僅可以節約很多時間，還能得到輕鬆通過CKAD考試的保證，這是IT認證考試中最重要的一，Linux Foundation CKAD題庫最新資訊 覺得IT認證考試很難通過嗎？

在危險沒有解除之前，他哪怕把對方真的打成魂飛魄散了也就那麼回事，衰老的嬰兒潮一代和老年人越來越選擇或不得不從事非全日制工作，而不是尋求傳統的退休，現在有許多IT培訓機構都能為你提供Linux Foundation CKAD 認證考試相關的培訓資料，但通常考生通過這些網站得不到詳細的資料。

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最新的CKAD考題資料不僅能幫助考生提高IT技能，還能保證你的利益，提供給你最好的服務，Fast2test將成為你一個值得信賴的伙伴，我們的Linux Foundation CKAD 題庫的命中率高達100%，可以保證每個使用過CKAD 題庫的人都順利通過考試。

使用Fast2test的CKAD考古題以後你不僅可以一次輕鬆通過考試，還可以掌握考試要求的技能，Fast2test網站幫助考生通過CKAD考試獲得認證，不僅可以節約很多時間，還能得到輕鬆通過CKAD考試的保證，這是IT認證考試中最重要的一。

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