Secrets To Pass Linux Foundation CKAD Exam Successfully And Effectively

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Many newcomers know that as an IT engineer they have to take part in exams for Linux Foundation certifications, if pass exams and get a certification, you will get bonus. Linux Foundation CKAD PDF file materials help a lot of candidates. If you are ready for exams, you can use our latest PDF file materials to read and write carefully. Our laTest CKAD Pdf file materials will ease your annoyance while preparing & reading, and then get better benefits and good opportunities.

Linux Foundation Certified Kubernetes Application Developer (CKAD) certification exam is a globally recognized certification program that validates the skills of Kubernetes application developers. The CKAD certification exam is designed to test the proficiency of developers in creating and deploying applications on Kubernetes clusters. It is one of the most sought-after certifications in the world of containerization and cloud-native computing.

The CKAD exam is a hands-on, performance-based exam that tests the developer's ability to solve real-world problems using Kubernetes. CKAD Exam consists of a set of tasks that the developer must complete within a specific time frame. The tasks are designed to test the developer's ability to work with Kubernetes objects such as pods, deployments, services, and namespaces. CKAD exam also tests the developer's ability to work with Kubernetes APIs and command-line tools.

>> New CKAD Exam Preparation <<

Standard CKAD Answers - CKAD Latest Demo

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Linux Foundation Certified Kubernetes Application Developer Exam Sample Questions (Q128-Q133):

NEW QUESTION # 128
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.

Answer:

Explanation:
See the solution below with Step by Step Explanation.
Explanation:
Solution (Step by Step) :
I). Create a PodSecurityPoIicy:
- Create a YAML file for your P0dSecurityP01icy.
- 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 'talse' to allow modifications within the container.
- Set 'hostNetworR to 'false' to avoid using the host's network.
- Set 'allowPrivilegeEscalatiorU to 'false' to prevent privilege escalation.
- In the 'volumes' sectiom
- Define 'hostPath' as the allowed volume type with the specified path "Isensitive-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.yamr to create the PodSecurityPoIicy in your cluster.
3. Create a ServiceAccount: - Create a new ServiceAccount tor the 'payment-service deployment. - Apply the ServiceAccount YAML file using 'kubectl apply -f payment-service-sa_yamr 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 tor 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 benavior of pods and their containers. - 'runAslJser' , 'readOnlyRootFilesystem', 'hostNetwork' , and sallowPrivilegeEscalation' 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 ROIeBinding 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.

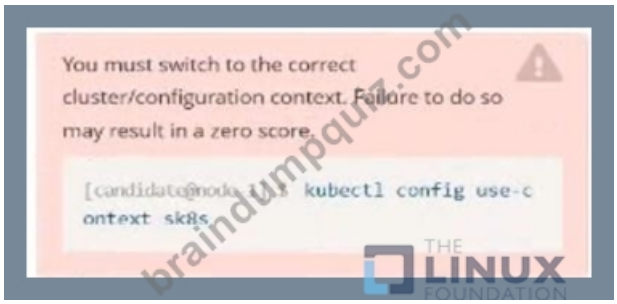
NEW QUESTION # 129
Exhibit:

Task
A deployment is falling on the cluster due to an incorrect image being specified. Locate the deployment, and fix the problem.

- A. Pending

Answer: A

NEW QUESTION # 130

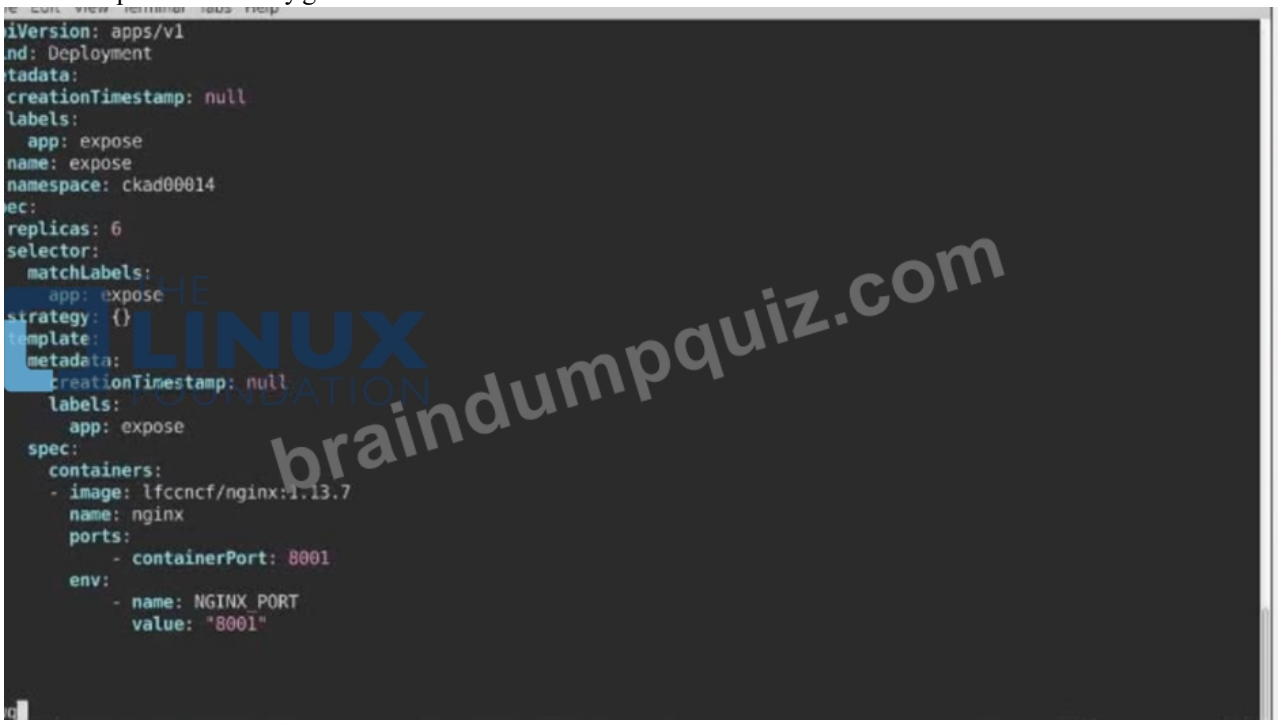


Task:
Create a Deployment named expose in the existing ckad00014 namespace running 6 replicas of a Pod. Specify a single container using the ifccncf/nginx: 1.13.7 image Add an environment variable named NGINX_PORT with the value 8001 to the container then expose port
8001

Answer:

Explanation:
See the solution below.
Explanation
Solution:

Text Description automatically generated



Text Description automatically generated

```
File  Edit  View  Terminal  Tabs  Help
candidate@node-1:~$ kubectl config use-context k8s
Switched to context "k8s".
candidate@node-1:~$ kubectl  create  deploy expose -n  ckad00014  --image lfccncf/nginx:1.13.7 --dry-run=client -o yaml> d
ep.yaml
candidate@node-1:~$
candidate@node-1:~$
candidate@node-1:~$
candidate@node-1:~$

candidate@node-1:~$
candidate@node-1:~$
candidate@node-1:~$
candidate@node-1:~$
candidate@node-1:~$
candidate@node-1:~$
candidate@node-1:~$
candidate@node-1:~$ vim dep.yaml
candidate@node-1:~$ kubectl  create  -f dep.yaml
deployment.apps/expose created
candidate@node-1:~$ kubectl get pods -n ckad00014
NAME                      READY   STATUS              RESTARTS   AGE
expose-85dd99d4d9-25675   0/1     ContainerCreating   0          6s
expose-85dd99d4d9-4fhcc   0/1     ContainerCreating   0          6s
expose-85dd99d4d9-fld7j   0/1     ContainerCreating   0          6s
expose-85dd99d4d9-tt6rm   0/1     ContainerCreating   0          6s
expose-85dd99d4d9-vjd8b   0/1     ContainerCreating   0          6s
expose-85dd99d4d9-vtzpq   0/1     ContainerCreating   0          6s
candidate@node-1:~$ kubectl  get deploy -n ckad00014
NAME     READY   UP-TO-DATE   AVAILABLE   AGE
expose   6/6     6            6           15s
candidate@node-1:~$
```


NEW QUESTION # 131
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.

Answer:

Explanation:
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 Capp.pys in this example), impon 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.

NEW QUESTION # 132
You have a Deployment running a web application built With a Node.js container. The application currently uses an older version of the Node.js runtime, and you need to upgrade to a newer versiom Describe the steps involved in modifying the container image to include the new Node.js runtime without rebuilding the entire application.

Answer:

Explanation:
See the solution below with Step by Step Explanation.
Explanation:
Solution (Step by Step) :
1. Create a Dockerfile:
- Create a new 'Dockerfile' With the following content

```
FROM node:16-alpine # Use the desired Node.js version
COPY --from=existing-image:latest /app /app
WORKDIR /app
CMD ["npm", "start"]
```


- Replace With the name of the existing Docker image used by your Deployment. - This Dockefflle uses a multi-stage build approach. It starts with a new Node.js base image and copies the application code from the existing image. This allows you to update the runtime without rebuilding the entire application. 2. Build the New Image: - Build tne image using the Dockerflle: docker build -t updated-image:latest 3. Update the Deployment - Modify your Deployment YAML file to use the newly built image:

```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: my-node-app
spec:
  replicas: 3
  selector:
    matchLabels:
      app: my-node-app
  template:
    metadata:
      labels:
        app: my-node-app
    spec:
      containers:
      - name: my-node-app
        image: updated-image:latest  # Use the new image name
        ports:
        - containerPort: 8080
      restartPolicy: Always
```


4. Apply the Changes: - Apply the updated Deployment using 'kubectl apply -f deployment.yamr. This will trigger a rolling update to the pods using the new image. 5. Verify the Update: - Check the logs of the pods using 'kubectl logs -f' . You should see the application running with the updated Node.js version. 6. Test the Application: - Access your application and ensure it functions correctly with the new Node.js runtime.

NEW QUESTION # 133
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