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Exercises get you ready for the Certified Kubernetes Application Developer exam



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Kubernetes is an open-source system for automating deployment, scaling, and management of containerized applications. The CNCF/Linux Foundation offers this performance-based exam which targets the developer aspect of kubernetes skills such as

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What do I need to know to use it?

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The CKAD Certification Exam is a hands-on, performance-based exam, which means that the candidate needs to complete a set of tasks within a specified time limit. CKAD exam is conducted online and requires the candidate to have access to a Kubernetes cluster. Linux Foundation Certified Kubernetes Application Developer Exam certification exam tests the candidate's ability to understand Kubernetes architecture, deploy and manage applications, configure and run services, and troubleshoot common issues. Linux Foundation Certified Kubernetes Application Developer Exam certification exam is a testament to the candidate's practical skills and knowledge of Kubernetes, and it is recognized globally by organizations looking to hire Kubernetes professionals.

Linux Foundation Certified Kubernetes Application Developer Exam Sample Questions (Q14-Q19):

NEW QUESTION # 14

You have a Kubernetes deployment named 'my-app' that runs an application with a specific configuration defined in a ConfigMap named 'my-config'. You need to implement a strategy to automatically update the deployment when the ConfigMap is changed.

Answer:

Explanation:

See the solution below with Step by Step Explanation.

Explanation:

Solution (Step by Step) :

1. Create a 'ConfigMap' named 'my-configs' with the following contents:

```
apiVersion: v1
kind: ConfigMap
metadata:
  name: my-config
data:
  config.json: |
    {
      "key1": "value1",
      "key2": "value2"
    }
}
```

2. Create a 'Deployment' named 'my-app' that mounts the 'my-config' ConfigMap as a volume:

```

apiVersion: apps/v1
kind: Deployment
metadata:
  name: my-app
spec:
  replicas: 2
  selector:
    matchLabels:
      app: my-app
  template:
    metadata:
      labels:
        app: my-app
    spec:
      containers:
      - name: my-app
        image: my-app-image:latest
        volumeMounts:
        - name: my-config-volume
          mountPath: /etc/config
      volumes:
      - name: my-config-volume
        configMap:
          name: my-config

```

3. Apply the ConfigMap and Deployment bash `kubectl apply -f configmap.yaml kubectl apply -f deployment.yaml` 4. Update the ConfigMap with new values:

```

apiVersion: v1
kind: ConfigMap
metadata:
  name: my-config
data:
  config.json: |
    {
      "key1": "new-value1",
      "key2": "new-value2"
    }

```

5. Apply the updated ConfigMap: bash `kubectl apply -f configmap.yaml` - The 'kustomization.yaml' file defines the resources (the 'deployment.yaml' file) and the patches to apply. - The 'deployment.yaml' file contains the base configuration for the deployment. - The patch.yaml file applies a strategic merge patch to the deployment, configuring rolling updates and automatic updates triggered by new images. - The 'maxSurge' and 'maxUnavailable' settings in the 'patch.yaml' define the maximum number of pods that can be added or removed during the update process. - The 'imagePullPolicy: Always' ensures that the new image is pulled from Docker Hub even if it exists in the pod's local cache, triggering the update.

NEW QUESTION # 15

Task:

Update the Deployment app-1 in the frontend namespace to use the existing ServiceAccount app.

Answer:

Explanation:

See the solution below.

Explanation:

Solution:

NEW QUESTION # 16

You have a container image for your application that includes both the application code and its dependencies. However, you've noticed that the image size is becoming increasingly large. How would you optimize the container image to reduce its size and

improve deployment efficiency?

Answer:

Explanation:

See the solution below with Step by Step Explanation.

Explanation:

Solution (Step by Step) :

1. Identify and remove unnecessary files: Review the contents of the image to identify any files that are not required at runtime. This may include development tools, build scripts, documentation, or temporary files. Use a tool like 'docker history' to see the layers of the image and identify unnecessary additions.
2. Optimize build steps: Analyze your Dockerfile and identify any unnecessary commands or layers that contribute to image size. For instance, using multi-stage builds to separate build dependencies from runtime dependencies can significantly reduce image size.
3. Use smaller base images: Choose a leaner base image like 'alpine' or 'scratch' (for minimal environments) instead of a large, bloated base image like 'ubuntu' or 'centos'. Smaller base images offer a significant advantage in terms of image size.
4. Compress files: Compress static assets, such as configuration files or log files, using tools like 'gzip' or 'bzip2' to reduce their size.
5. Employ a package manager for dependencies: Utilize a package manager like 'apt-get' or 'yum' to install necessary libraries and dependencies. This helps streamline the installation process and optimize package selection.

Example:

Original Dockerfile:

```
FROM ubuntu:latest
# Install dependencies
RUN apt-get update && \
apt-get install -y python3 python3-pip
# Copy application code and dependencies
COPY - /app
# Run application
CMD ["python3", "/app/app.py"]
```

Optimized Dockerfile with multi-stage build:

```
FROM python:3.9-alpine AS builder
# Install dependencies
COPY requirements.txt lapp./
RUN pip install -r /app/requirements.txt
# Build the application
COPY . /app
RUN python setup.py build
FROM scratch AS runtime
# Copy the compiled application
COPY --from-builder /app/build /app
# Run the application
CMD ["/app/app"]
```

This optimized Dockerfile uses a smaller base image (python.3.9-alpineS), leverages multi-stage builds to separate build dependencies from runtime dependencies, and copies only the necessary compiled application to the final image. This results in a significantly smaller container image. You have a critical batch job that processes large amounts of data daily. The job needs to run at a specific time every day, even if the Kubernetes cluster is restarted. Explain how you would design and implement this job using Kubernetes Jobs and CronJobs to ensure reliable execution.

NEW QUESTION # 17

You have a Kubernetes deployment that uses a ConfigMap to provide configuration settings to your application. You need to update the ConfigMap with new settings without restarting the deployment.

Answer:

Explanation:

See the solution below with Step by Step Explanation.

Explanation:

Solution (Step by Step) :

1. Update the ConfigMap:
 - Create or update your ConfigMap YAML file, for example, 'Sapp-config.yaml':

```

apiVersion: v1
kind: ConfigMap
metadata:
  name: app-config
data:
  API_KEY: new_api_key
  LOG_LEVEL: debug
  # Other configuration settings...

```

- Replace and 'debug' with the desired new values. 2. Apply the Updated ConfigMap: - Apply the updated ConfigMap using: bash kubectl apply -f app-config.yaml 3. Verify the Update: - Check the updated ConfigMap using: bash kubectl get configmap app-config -o yaml - Confirm that the new settings are reflected in the ConfigMap. 4. (Optional) Monitor Application Logs: - If your application is logging configuration values, you can check the logs to ensure it's now using the updated settings.

NEW QUESTION # 18

You have a Kubernetes deployment that uses a ConfigMap to provide configuration settings to your application. You need to update the ConfigMap with new settings without restarting the deployment.

Answer:

Explanation:

See the solution below with Step by Step Explanation.

Explanation:

Solution (Step by Step) :

1. Update the ConfigMap:

- Create or update your ConfigMap YAML file, for example, 'app-config.yaml':

- Replace and 'debug' with the desired new values. 2. Apply the Updated ConfigMap: - Apply the updated ConfigMap using: bash kubectl apply -f app-config.yaml 3. Verify the Update: - Check the updated ConfigMap using: bash kubectl get configmap app-config -o yaml - Confirm that the new settings are reflected in the ConfigMap. 4. (Optional) Monitor Application Logs: - If your application is logging configuration values, you can check the logs to ensure it's now using the updated settings.

NEW QUESTION # 19

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