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Practice Enough With These 150 Questions for the CKAD Exam

Exercises get you ready for the Certified Kubernetes Application Developer exam

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Nov 11 · 21 min read ★

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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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The CKAD certification exam is designed for developers with experience in containerization and Kubernetes, looking to validate their skills and knowledge to build, deploy, and manage cloud-native applications on Kubernetes. CKAD Exam evaluates the candidate's understanding of Kubernetes architecture, Kubernetes objects, Kubernetes networking, Kubernetes storage, Kubernetes security, and Kubernetes troubleshooting. The CKAD certification is recognized globally by organizations and enterprises as a standard for Kubernetes application development expertise, making it a valuable credential for developers seeking to advance their careers in cloud computing and containerization.

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Linux Foundation Certified Kubernetes Application Developer Exam Sample Questions (Q139-Q144):

NEW QUESTION # 139
You are developing a Kubernetes application that requires dynamic configuration updates. You decide to utilize ConfigMaps to manage these configurations. You have a ConfigMap named 'app-config' containing the following configuration:

```
apiVersion: v1
kind: ConfigMap
metadata:
  name: app-config
data:
  database_host: db-server
  database_port: 5432
  database_user: app_user
  database_password: "password123"
```

Your application retrieves these configuration values from the 'app-config' ConfigMap. You need to update the 'database_password' value without restarting the application pods. How can you achieve this?

Answer:

Explanation:
See the solution below with Step by Step Explanation.
Explanation:
Solution (Step by Step) :
I). Update the ConfigMap:
- Create a new ConfigMap with the updated 'database_password' value.
- Replace "password123" with your new desired password.

```
apiVersion: v1
kind: ConfigMap
metadata:
  name: app-config
data:
  database_host: db-server
  database_port: 5432
  database_user: app_user
  database_password: "new_password"
```

- Apply the updated ConfigMap using the following command: bash kubectl apply -f updated_app_config.yaml 2. Verify the Update: - Use the 'kubectl get configmap app-config -o yaml' command to verify that the 'database_password' value has been updated in the ConfigMap. 3. Application Reloads: - Ensure that your application is configured to watch for changes in the

ContigMap and automatically reload the configuration when it detects an update. This behavior will depend on your application's code and how it interacts with Kubernetes. Common approaches involve: - Using a sidecar container that watches the ConfigMap for changes. - Integrating with tools like Kubernetes ConfigMap Reloader- This approach allows you to update the without restarting the application pods, minimizing downtime and ensuring a smooth transitiom ,

NEW QUESTION # 140
You are building a microservice that requires a specific configuration file to be mounted into the container This configuration file should be updated witnout restarting tne microservice container. How can you achieve this using Kubernetes?

Answer:

Explanation:
See the solution below with Step by Step Explanation.
Explanation:
Solution (Step by Step) :
1. use ConfigMaps:
- Create a 'ConfigMap' to store the configuration file.
- Create a YAML file (e.g., 'config.yamlS) with your configuration content:

```
apiVersion: v1
kind: ConfigMap
metadata:
  name: my-microservice-config
data:
  config.json: |
    {
      "database": {
        "host": "database.example.com",
        "port": 5432
      }
    }
```

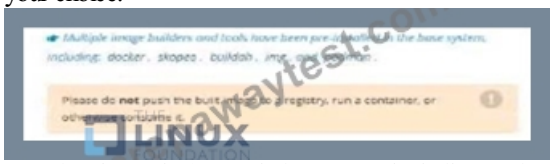
2. Mount the ConfigMap: - In your 'Deployment definition, mount the 'configMap' into the container using a volume mount

```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: my-microservice
spec:
  replicas: 3
  selector:
    matchLabels:
      app: my-microservice
  template:
    metadata:
      labels:
        app: my-microservice
    spec:
      containers:
      - name: my-microservice
        image: example/my-microservice:latest
        volumeMounts:
        - name: config-volume
          mountPath: /etc/config
      volumes:
      - name: config-volume
        configMap:
          name: my-microservice-config
```

3. Update the Configuration: - IJpdate the 'ConfigMap' directly using ' kubectl patch configmap my-microservice-config -type-merge -p '{"data": {"config-json'" "updated - The changes will be reflected in the mounted volume inside the container. 4. Access the Configuration: - Your microservice code should read the configuration file from the mounted path (e.g., '/etc/config')- Note: This approach avoids restarting the container when you need to update the configuration. The 'ConfigMaps acts as a persistent volume, and changes to its content are automatically reflected in the mounted volume inside the container

NEW QUESTION # 141

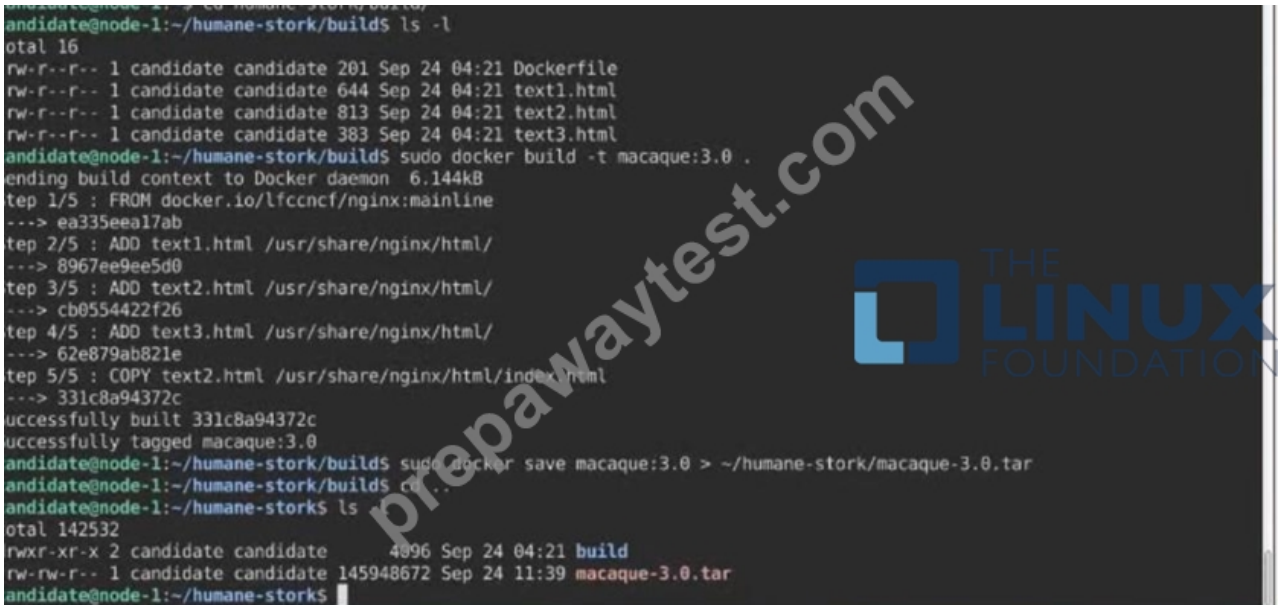
Task:
A Dockerfile has been prepared at -/human-stork/build/Dockerfile
1) Using the prepared Dockerfile, build a container image with the name macque and lag 3.0. You may install and use the tool of your choice.

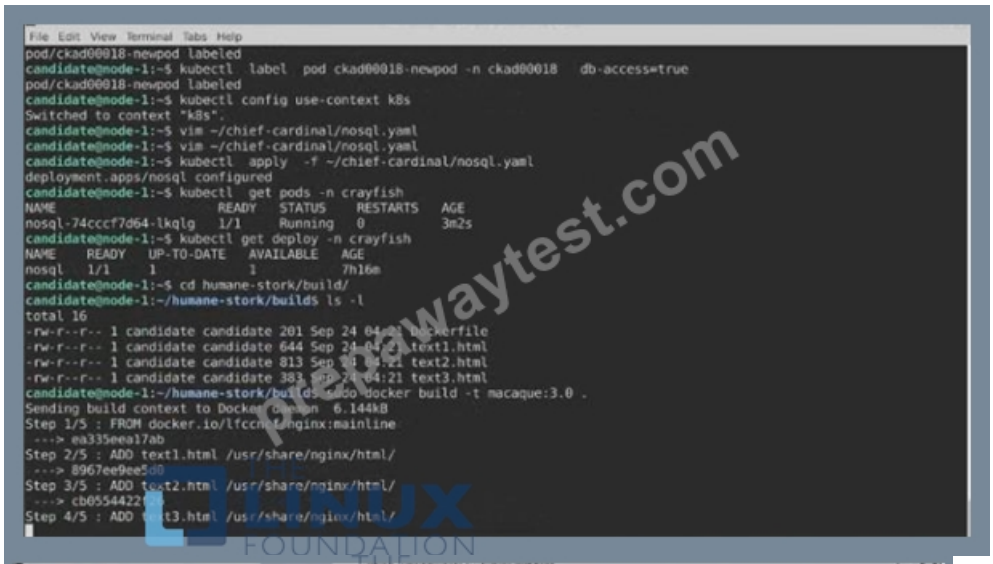


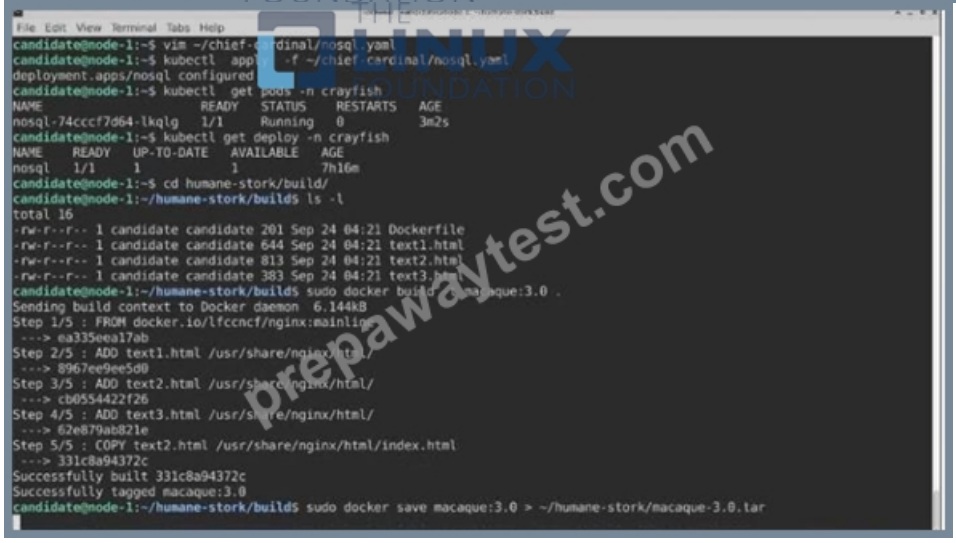
2) Using the tool of your choice export the built container image in OC-format and store it at -/human stork/macque 3.0 tar See the solution below.

Answer:

Explanation:
Explanation
Solution:







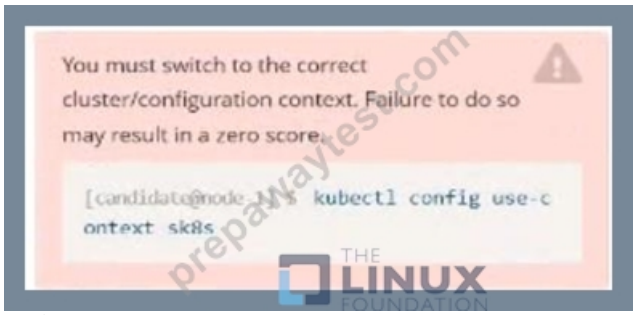
NEW QUESTION # 142
Context

Context
It is always useful to look at the resources your applications are consuming in a cluster.
Task
* From the pods running in namespace cpu-stress , write the name only of the pod that is consuming the most CPU to file /opt/KDOBG030l/pod.txt, which has already been created.

Answer:

Explanation:
Solution:

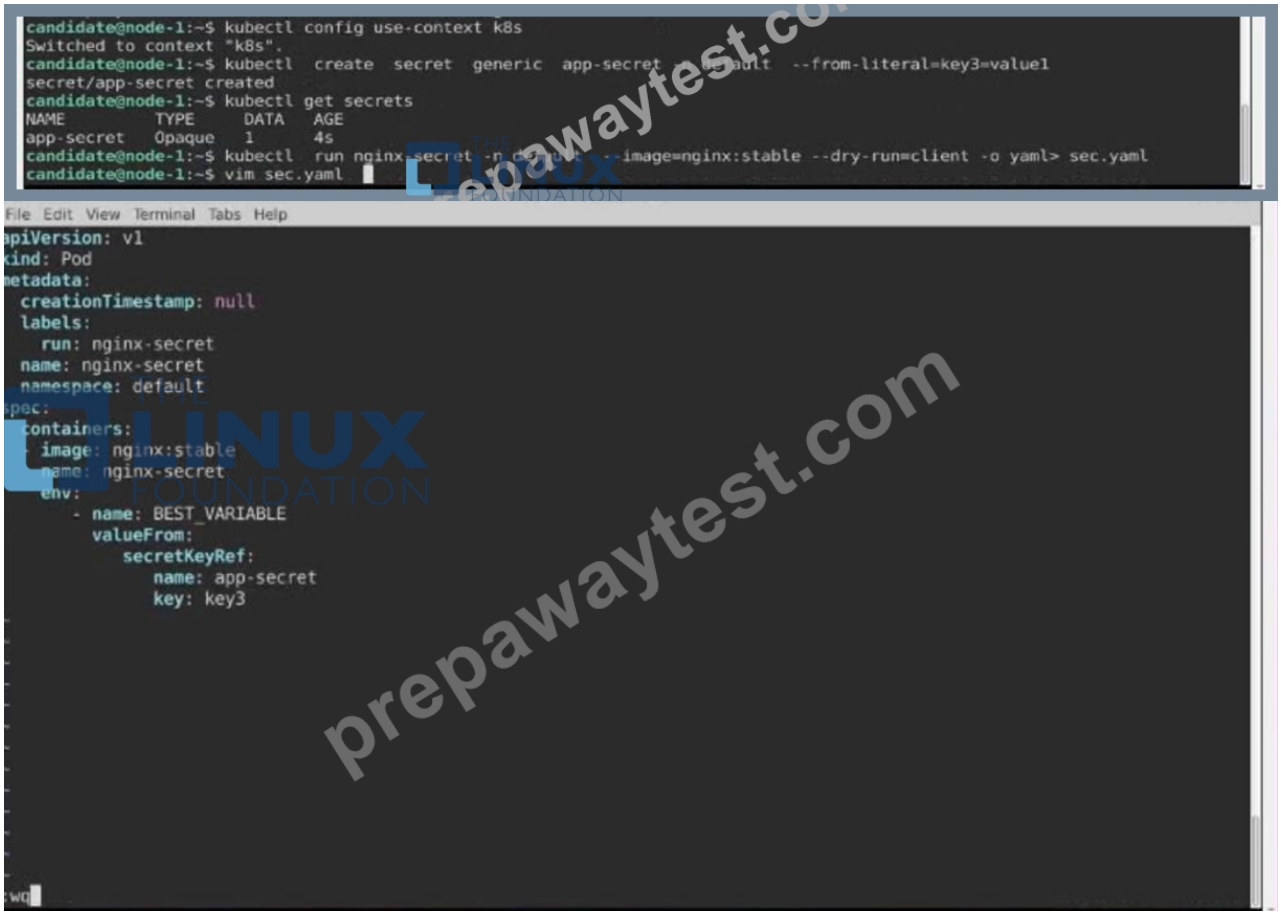
NEW QUESTION # 143
Refer to Exhibit.



Task:
1) Create a secret named app-secret in the default namespace containing the following single key-value pair:
Key3: value1
2) Create a Pod named ngnix secret in the default namespace.Specify a single container using the nginx:stable image.
Add an environment variable named BEST_VARIABLE consuming the value of the secret key3.

Answer:

Explanation:
Solution:



NEW QUESTION # 144

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