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CKAD certification is designed for software developers who have experience in container-based application development and want to validate their skills in Kubernetes application development. Additionally, system administrators, DevOps engineers, and IT professionals who work with Kubernetes can also take the certification to enhance their skills and knowledge.

To prepare for the exam, candidates can take advantage of a range of resources provided by the Linux Foundation, including online courses, practice exams, and study guides. They can also join online communities and participate in forums to connect with other developers who are preparing for the exam and share tips and strategies.

Linux Foundation Certified Kubernetes Application Developer Exam Sample Questions (Q130-Q135):

NEW QUESTION # 130
You are tasked with deploying a complex application using Helm. The application consists of multiple microservices, each with its own deployment and service. To simplify the deployment and management of these microservices, you need to implement a mecnanism that allows you to automatically create and manage namespaces based on the name of the Helm release.

Answer:

Explanation:
See the solution below with Step by Step Explanation.
Explanation:
Solution (Step by Step) :
1. Create a Custom Helm Chart:
- Begin by creating a custom Helm chart named 'my-app-chart' to manage the application's multiple microservices.
2. Implement a Namespace Creation Function:
- Within the 'my-app-chafltemplatesr directory, create a file named 'namespace-yamr and define the namespace creation function.

```
apiVersion: v1
kind: Namespace
metadata:
  name: {{ .Release.Name }}-namespace
```

- This function uses the Helm release name to dynamically generate a namespace with the format '-namespace' 3. Add the Namespace to the Chan: - Modify the 'my-app-chart/templates/service.yamr and 'my-app-chart/templates/deployment_yamr for each microservice to ensure the deployments and services reside within the dynamically created namespace:

```
apiVersion: v1
kind: Service
metadata:
  name: my-service
  namespace: {{ .Release.Name }}-namespace
spec:
  ...

apiVersion: apps/v1
kind: Deployment
metadata:
  name: my-deployment
  namespace: {{ .Release.Name }}-namespace
spec:
  ...
```

4. Deploy the Chart with Different Releases: - Use tne following command to deploy tne chart with different releases, each creating a separate namespace: bash nelm install release1 my-app-chart helm install release2 my-app-chart - This will create namespaces release1-namespace' and release2-namespace , each containing the deployments and services of the respective releases. 5. Manage and Clean Up: - To manage and clean up the deployments and namespaces, you can use regular Helm commands within the context or each namespace: bash kubectl --namespace release1 -namespace get pods helm delete release1 kubectl delete namespace release1-namespace - This approach provides a structured and automated method for managing multiple microservices within separate namespaces using Helm releases.,

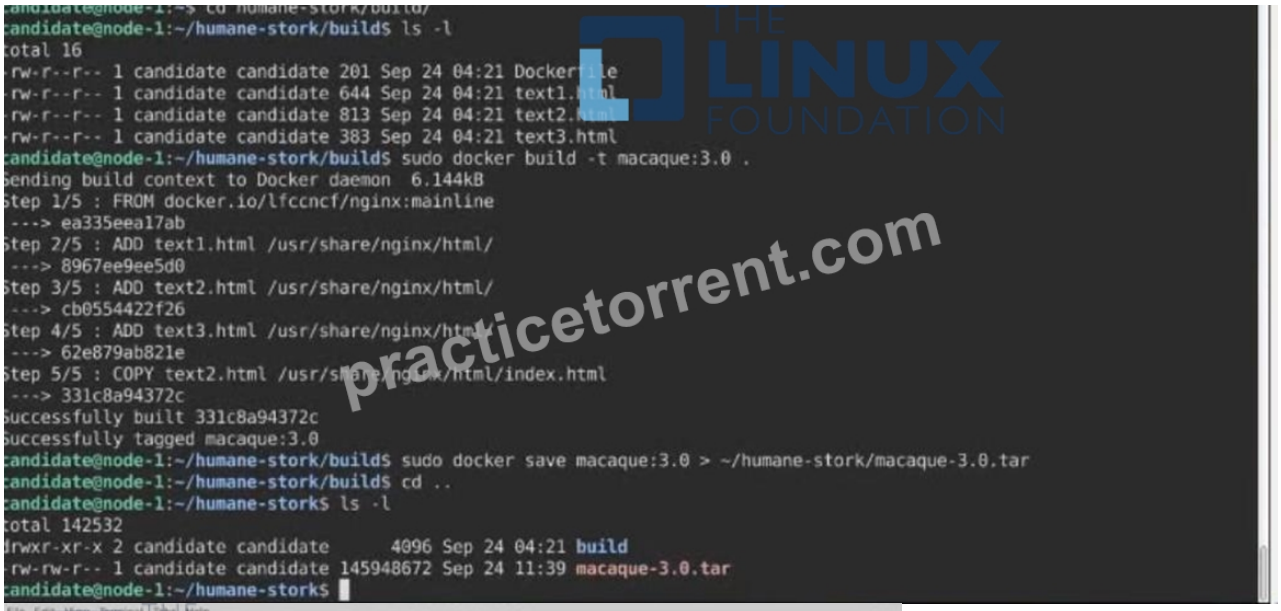
NEW QUESTION # 131

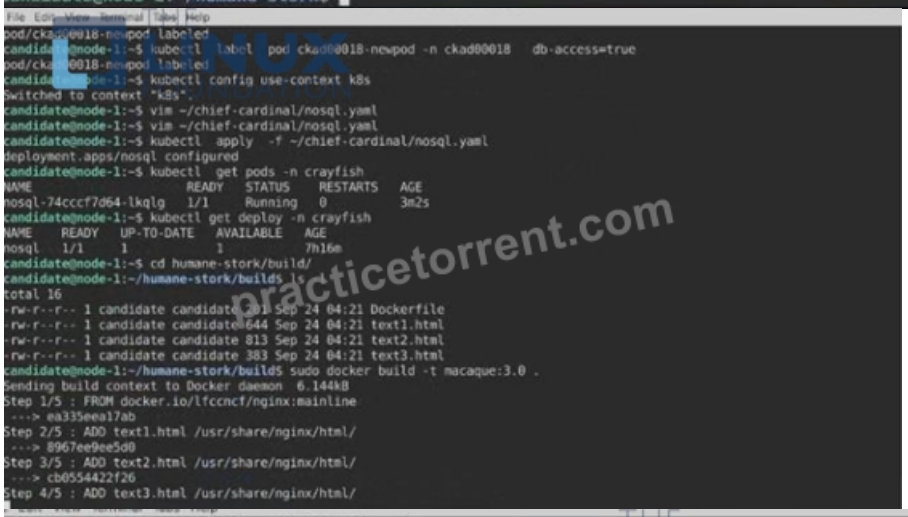
Task:
A Dockerfile has been prepared at -/human-stork/build/Dockerfile
1) Using the prepared Dockerfile, build a container image with the name macque and lag 3.0. You may install and use the tool of your choice.

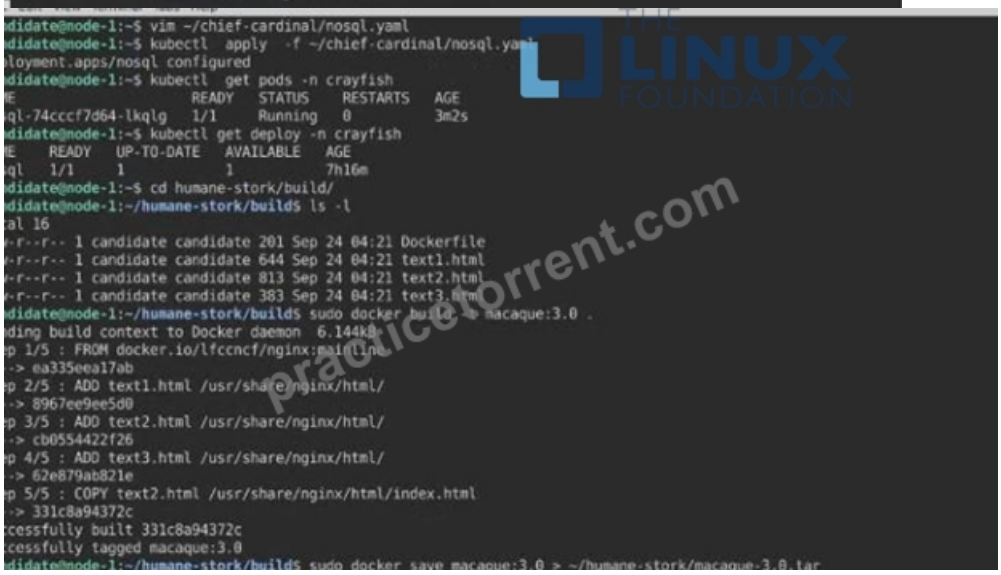
2) Using the tool of your choice export the built container image in OC-format and store it at -/human stork/macque 3.0 tar See the solution below.

Answer:

Explanation:
Explanation
Solution:







NEW QUESTION # 132
You have a Deployment named 'nginx-deployment' running 3 replicas of an Nginx container. You need to ensure that all 3 pods are using the same ConfigMap for configuration. Additionally, you need to configure the ConfigMap so that changes made to it are automatically reflected in the running pods without requiring a new Deployment update.

Answer:

Explanation:
See the solution below with Step by Step Explanation.
Explanation:
Solution (Step by Step) :
1. Create the ConfigMap:

```
apiVersion: v1
kind: ConfigMap
metadata:
  name: nginx-config
data:
  nginx_conf: |
    worker_processes  1;
    events {
      worker_connections  1024;
    }
    http {
      server {
        listen 80;
        location / {
          root /usr/share/nginx/html;
          index index.html index.htm;
        }
      }
    }
```

2. Apply the ConfigMap: bash kubectl apply -f nginx-config_yaml 3. Update the Deployment to use the ConfigMap:

```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: nginx-deployment
spec:
  replicas: 3
  selector:
    matchLabels:
      app: nginx
  template:
    metadata:
      labels:
        app: nginx
    spec:
      containers:
      - name: nginx
        image: nginx:latest
        volumeMounts:
        - name: nginx-config-volume
          mountPath: /etc/nginx/conf.d
      volumes:
      - name: nginx-config-volume
        configMap:
          name: nginx-config
```

4. Apply the updated Deployment bash kubectl apply -f nginx-deployment.yaml 5. Verify the Deployment: bash kubectl get deployments nginx-deployment You should see that the Deployment is using the 'nginx-config' ConfigMap for its configuration. 6. Test the automatic update: - Modify the 'nginx-config' ConfigMap: bash kubectl edit configmap nginx-config Change the 'nginx_conf' value in the ConfigMap. - Verify the change in the pods: bash kubectl exec -it -- bash -c 'cat /etc/nginxfconf-d/nginx_conf' Replace with the name of one of the pods- This command will display the contents of the nginx configuration file within the pod. You will observe that the nginx configuration file in the running pods is automatically updated without needing a Deployment update.

NEW QUESTION # 133
You are developing a multi-container application that includes a web server, a database, and a message broker. You want to ensure that the database and message broker start before the web server to avoid dependency issues. How can you design your deployment to achieve this?

Answer:

Explanation:
See the solution below with Step by Step Explanation.
Explanation:
Solution (Step by Step) :

1. Define Pod with Containers:
- Create a 'Pod' definition with three containers: 'web-server', 'database' , and 'message-broker
- Include the appropriate image names for each container.

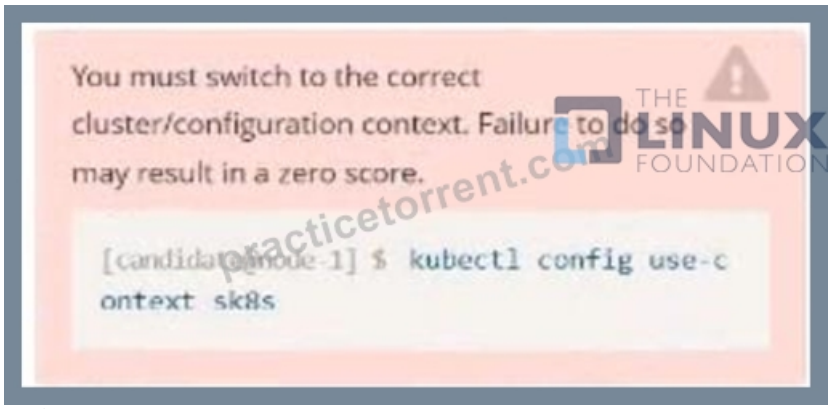
```
apiVersion: v1
kind: Pod
metadata:
  name: multi-container-app
spec:
  containers:
  - name: web-server
    image: example/web-server:latest
  - name: database
    image: example/database:latest
  - name: message-broker
    image: example/message-broker:latest
```

2. Implement Init Containers: - Define ' initcontainers' within the 'Pod' spec to run containers before the main application containers.
- Use 'initContainers' to set up the database and message broker:

```
apiVersion: v1
kind: Pod
metadata:
  name: multi-container-app
spec:
  initContainers:
  - name: database-init
    image: example/database-init:latest
    command: ["/bin/sh", "-c", "echo 'Database initialized'"]
  - name: message-broker-init
    image: example/message-broker-init:latest
    command: ["/bin/sh", "-c", "echo 'Message broker initialized'"]
  containers:
  - name: web-server
    image: example/web-server:latest
  - name: database
    image: example/database:latest
  - name: message-broker
    image: example/message-broker:latest
```

3. Apply the Pod Definition: - Apply the 'Pod' definition using 'kubectl apply -f multi-container-app.yamr 4. Verify Container Startup Order: - Check the pod logs using 'kubectl logs -f multi-container-app'. You will observe the init containers ('database-init and 'message-broker-init') starting first, followed by the main containers ('web-server', 'database' , and 'message-broker'). Note: In this example, the 'database-init and 'message-broker-init containers simply print a message. You can replace these with actual initialization scripts or commands relevant to your specific database and message broker services.

NEW QUESTION # 134
Refer to Exhibit.



Task
A Deployment named backend-deployment in namespace staging runs a web application on port 8081.

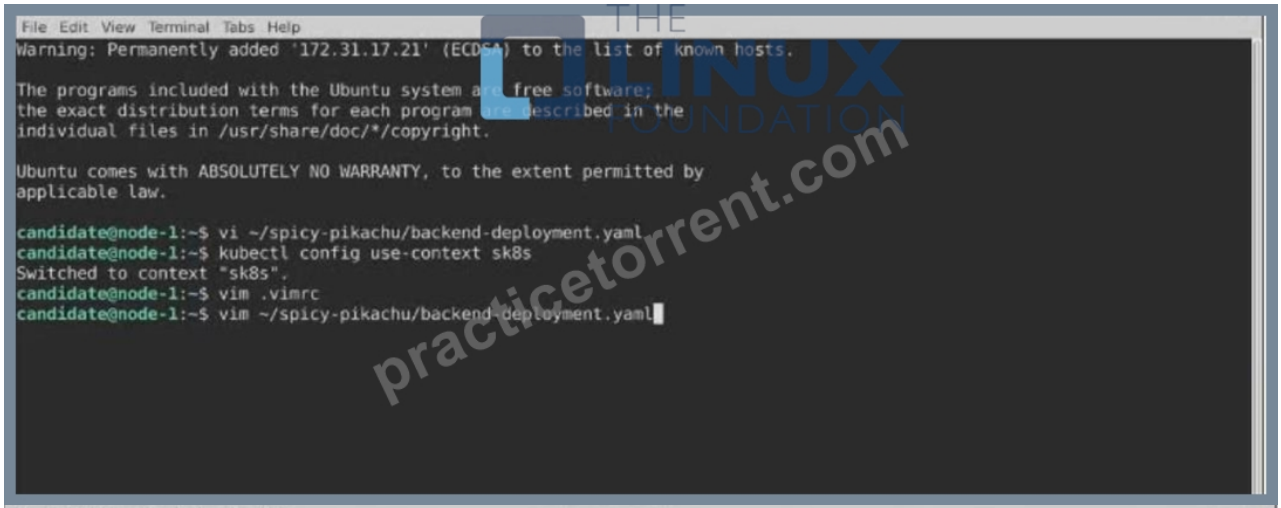
The Deployment's manifest files can be found at ~/spicy-pikachu/backend-deployment.yaml .

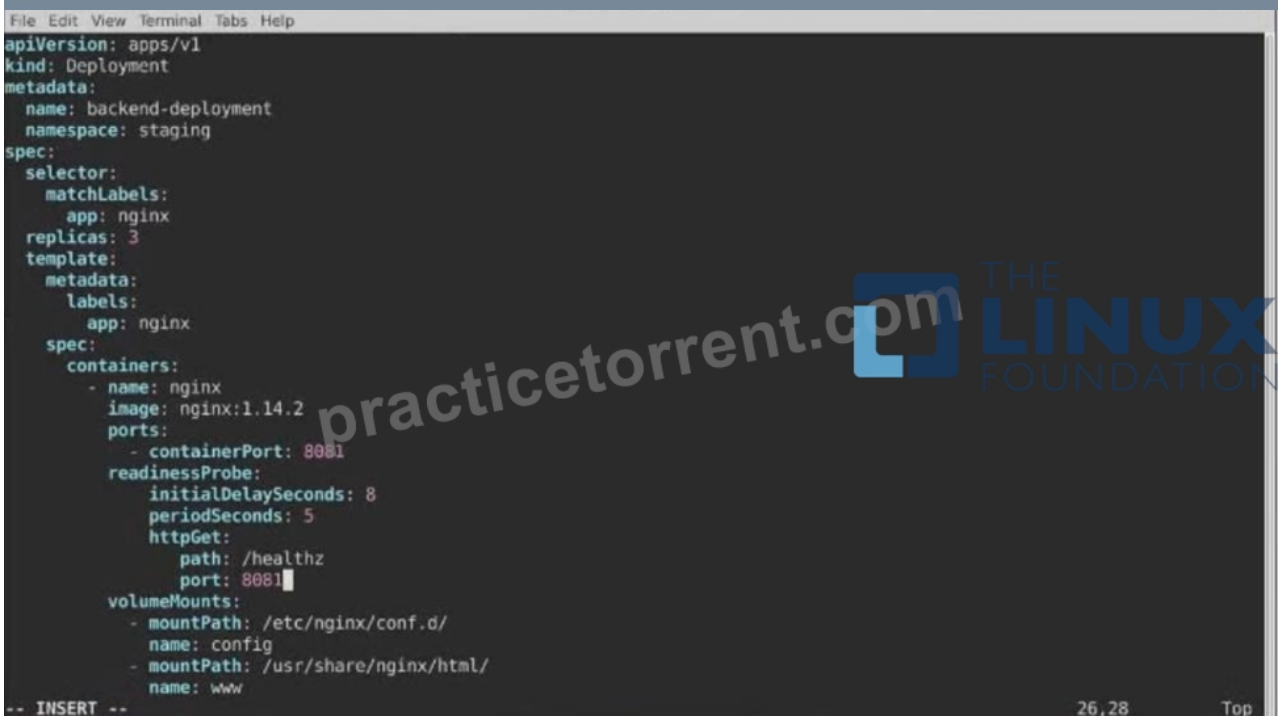
Modify the Deployment specifying a readiness probe using path /healthz .

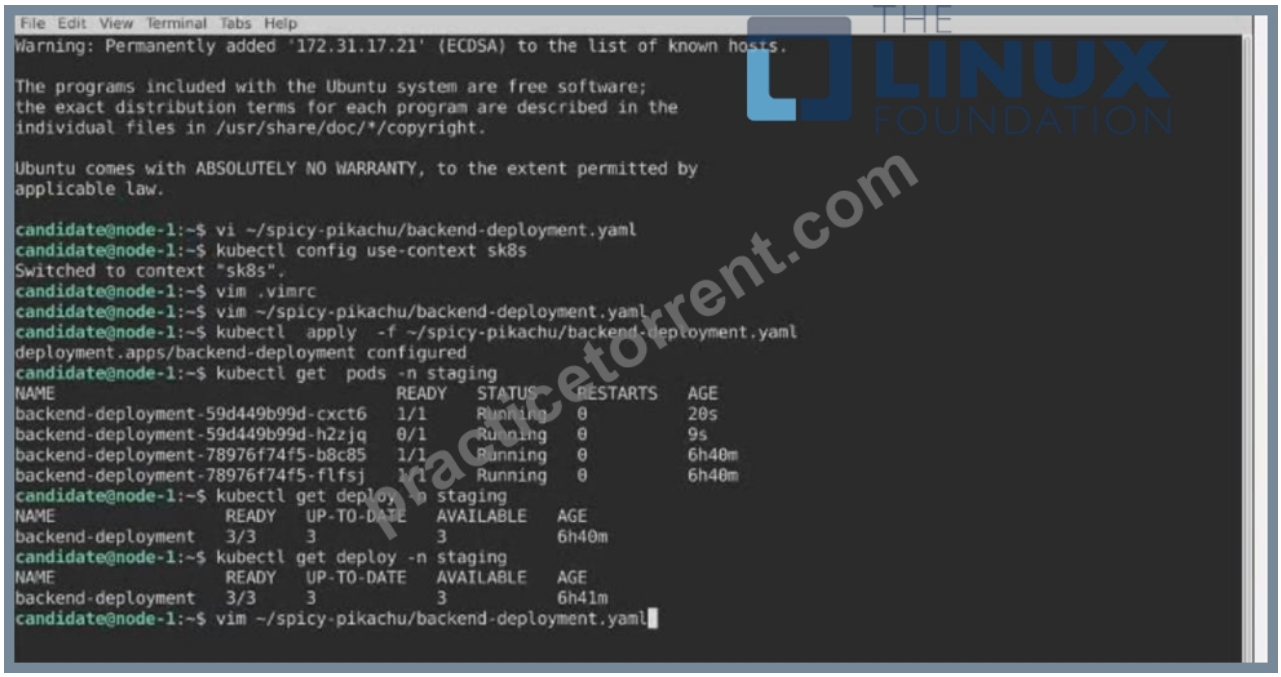
Set initialDelaySeconds to 8 and periodSeconds to 5 .

Answer:

Explanation:
Solution:







NEW QUESTION # 135

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