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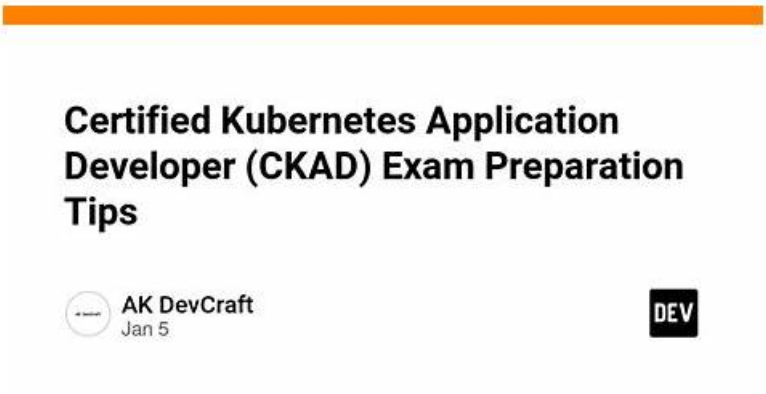

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Linux Foundation Certified Kubernetes Application Developer Exam Sample Questions (Q153-Q158):

NEW QUESTION # 153
You are developing a container image for a .NET Core application tnat requires a specific version of tne .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?

Answer:

Explanation:
See the solution below with Step by Step Explanation.
Explanation:
Solution (Step by Step) :
I). 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/dotneVsdk:3.1
2. Copy Application Code:
- Copy your .NET Core application code into the Docker image.
- Example:

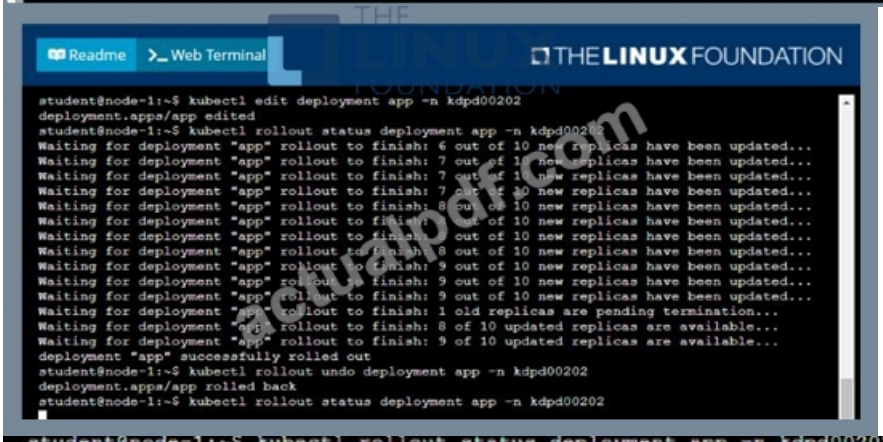
dockerfile
COPY
3. Build the Application:
- Use the 'RIJN' instruction to build your .NET Core application using the 'dotnet publish' command.
- Example:
dockerfile
RUN dotnet publish -c Release -o /app
4. Define Runtime Image (Optional):
- Create a second stage Dockerfile that uses a smaller base image, 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.

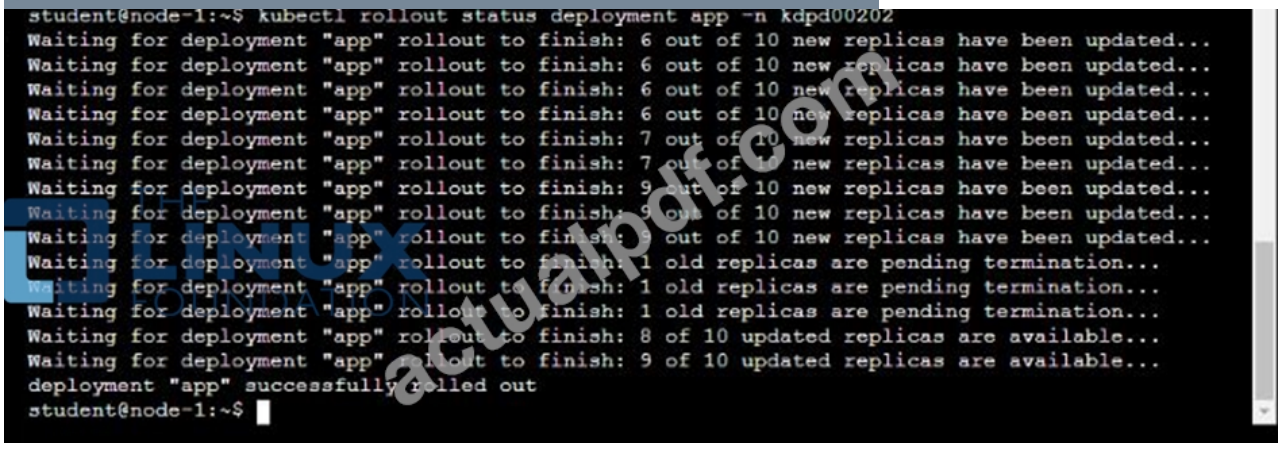
NEW QUESTION # 154
Refer to Exhibit.

Context
As a Kubernetes application developer you will often find yourself needing to update a running application.
Task
Please complete the following:
* Update the app deployment in the kdpd00202 namespace with a maxSurge of 5% and a maxUnavailable of 2%
* Perform a rolling update of the web1 deployment, changing the lfccncf/ngmx image version to 1.13
* Roll back the app deployment to the previous version

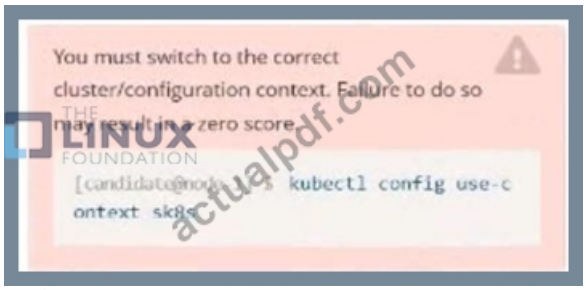
Answer:

Explanation:
Solution:





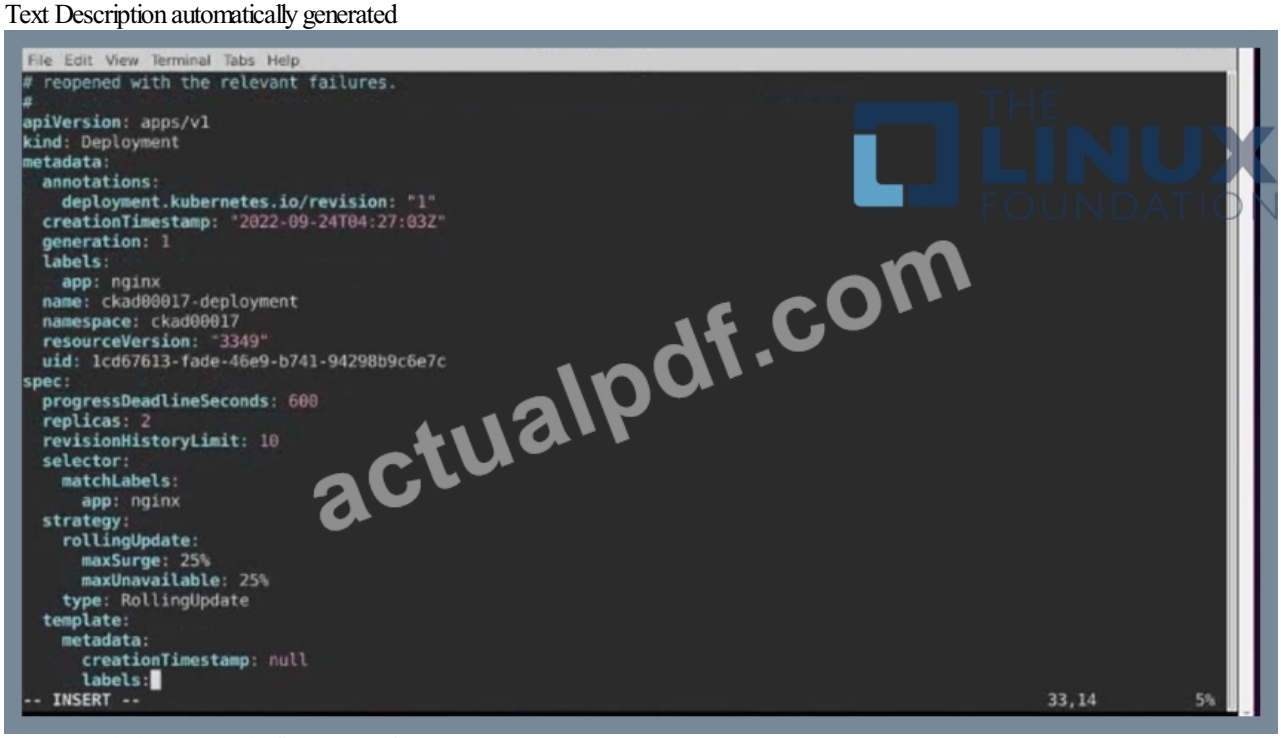
NEW QUESTION # 155



Task:
1) First update the Deployment cka00017-deployment in the ckad00017 namespace:
Role userUI
2) Next, Create a NodePort Service named cherry in the ckad00017 nmespace exposing the ckad00017-deployment Deployment on TCP port 8888 See the solution below.

Answer:

Explanation:
Explanation
Solution:
Text Description automatically generated



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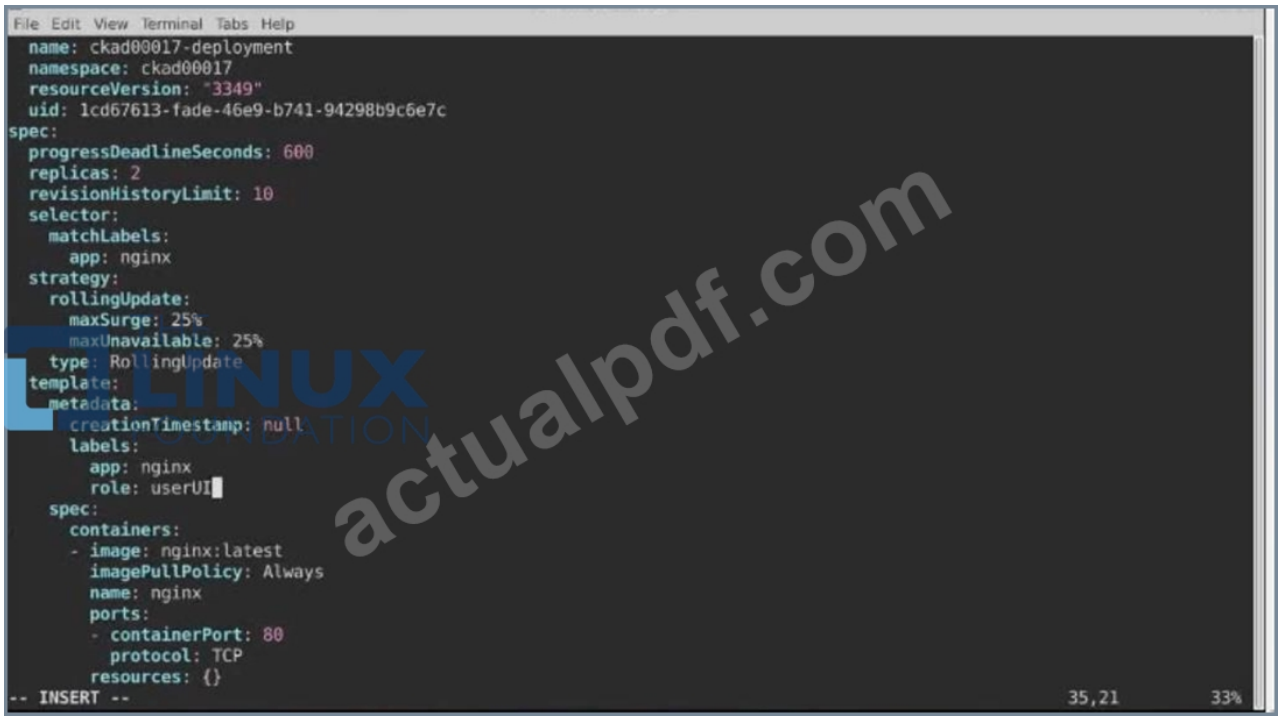

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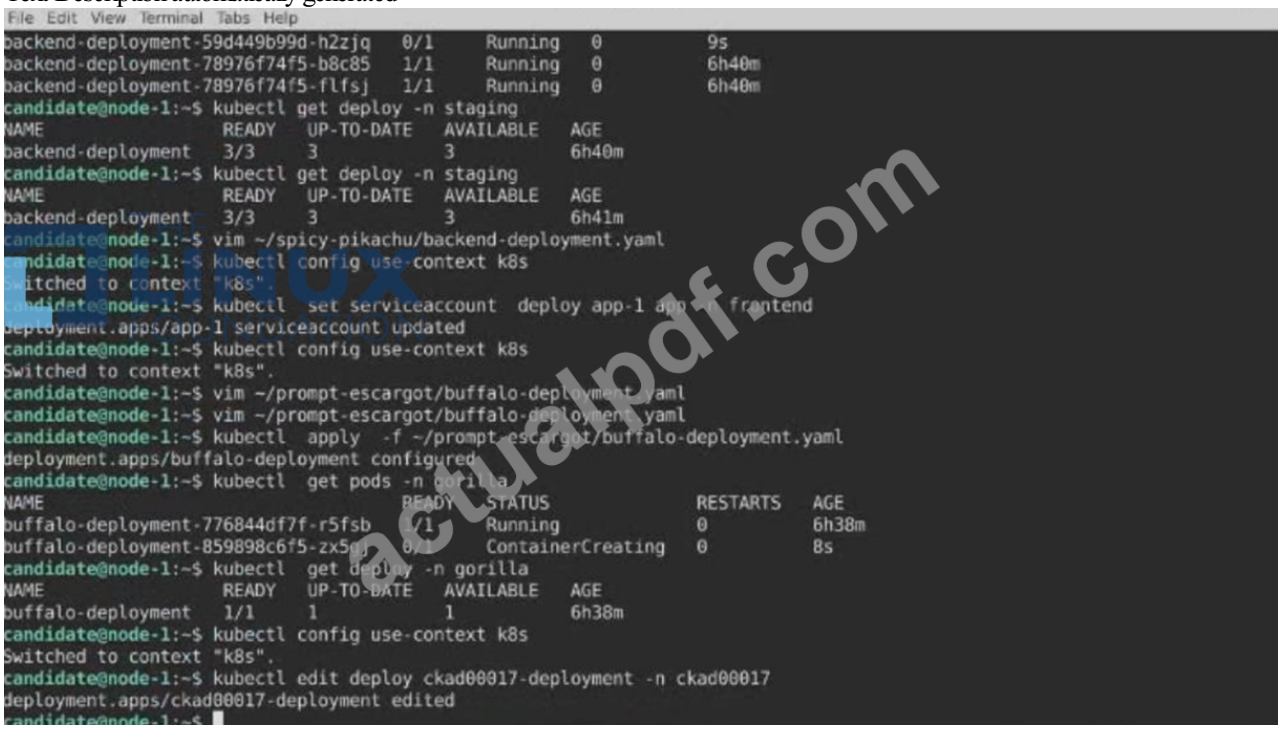


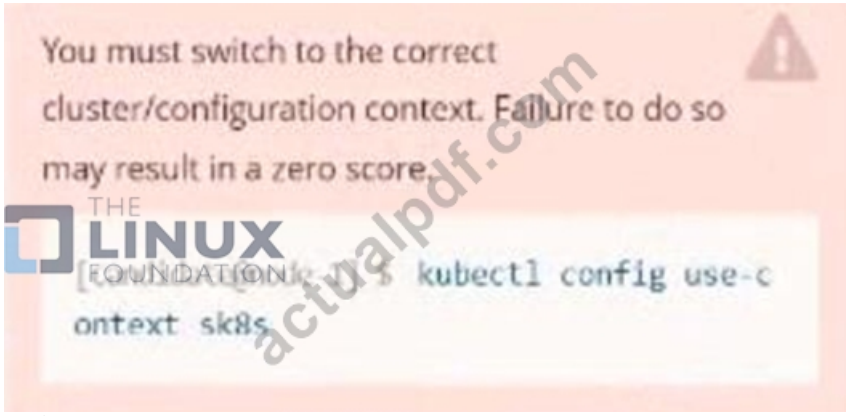
```
File Edit View Terminal Tabs Help
candidate@node-1:~$ kubectl  get pods -n gorilla
NAME                                  READY   STATUS              RESTARTS   AGE
buffalo-deployment-776844df7f-r5fsb   1/1     Running             0          6h38m
buffalo-deployment-859898c6f5-zx5gj   0/1     ContainerCreating   0          8s
candidate@node-1:~$ kubectl  get deploy -n gorilla
NAME                 READY   UP-TO-DATE   AVAILABLE   AGE
buffalo-deployment   1/1     1            1           6h38m
candidate@node-1:~$ kubectl config use-context k8s
Switched to context "k8s".
candidate@node-1:~$ kubectl edit deploy ckad00017-deployment -n ckad00017
deployment.apps/ckad00017-deployment edited
candidate@node-1:~$ kubectl  expose  deploy ckad00017-deployment -n ckad0001
ckad00014  ckad00015  ckad00017
candidate@node-1:~$ kubectl  expose  deploy ckad00017-deployment -n ckad0001
ckad00014  ckad00015  ckad00017
candidate@node-1:~$ kubectl  expose  deploy ckad00017-deployment -n ckad0001
ckad00014  ckad00015  ckad00017
candidate@node-1:~$ kubectl  expose  deploy ckad00017-deployment -n ckad0001
ckad00014  ckad00015  ckad00017
candidate@node-1:~$ kubectl  expose  deploy ckad00017-deployment -n ckad0001
ckad00014  ckad00015  ckad00017
candidate@node-1:~$ kubectl  expose  deploy ckad00017-deployment -n ckad0001
ckad00014  ckad00015  ckad00017
candidate@node-1:~$ kubectl  expose  deploy ckad00017-deployment -n ckad0001
ckad00014  ckad00015  ckad00017
candidate@node-1:~$ kubectl  expose  deploy ckad00017-deployment -n ckad0001
ckad00014  ckad00015  ckad00017
candidate@node-1:~$ kubectl  expose  deploy ckad00017-deployment -n ckad0001
ckad00014  ckad00015  ckad00017
candidate@node-1:~$ kubectl  expose  deploy ckad00017-deployment -n ckad00017 --name=cherry --port=8888 --type=NodePort
service/cherry exposed
candidate@node-1:~$
```

```
candidate@node-1:~$ kubectl get svc
NAME         TYPE        CLUSTER-IP   EXTERNAL-IP   PORT(S)   AGE
kubernetes   ClusterIP   10.96.0.1    <none>        443/TCP   77d
candidate@node-1:~$ kubectl get svc  -n ckad00017
NAME     TYPE       CLUSTER-IP       EXTERNAL-IP   PORT(S)          AGE
cherry   NodePort   10.100.100.176   <none>        8888:30683/TCP   24s
candidate@node-1:~$ kubectl  expose  service   deploy ckad00017-deployment -n ckad00017 --name=cherry --port=8888 --type=N
odePort
Error from server (NotFound): services "deploy" not found
Error from server (NotFound): services "ckad00017-deployment" not found
candidate@node-1:~$ kubectl get svc  -n ckad00017
NAME     TYPE       CLUSTER-IP       EXTERNAL-IP   PORT(S)          AGE
cherry   NodePort   10.100.100.176   <none>        8888:30683/TCP   46s
candidate@node-1:~$
```

```
andidate@node-1:~$ kubectl  expose  service   deploy ckad00017-deployment -n ckad00017 --name=cherry --port=8888 --type=N
dePort
rror from server (NotFound): services "deploy" not found
rror from server (NotFound): services "ckad00017-deployment" not found
andidate@node-1:~$ kubectl get svc  -n ckad00017
AME     TYPE       CLUSTER-IP       EXTERNAL-IP   PORT(S)          AGE
herry   NodePort   10.100.100.176   <none>        8888:30683/TCP   46s
andidate@node-1:~$ history
    1  vi ~/spicy-pikachu/backend-deployment.yaml
    2  kubectl config use-context sk8s
    3  vim .vimrc
    4  vim ~/spicy-pikachu/backend-deployment.yaml
    5  kubectl  apply  -f ~/spicy-pikachu/backend-deployment.yaml
    6  kubectl get  pods -n staging
    7  kubectl get deploy -n staging
    8  vim ~/spicy-pikachu/backend-deployment.yaml
    9  kubectl config use-context k8s
   10  kubectl  set serviceaccount  deploy app-1 app -n frontend
   11  kubectl config use-context k8s
   12  vim ~/prompt-escargot/buffalo-deployment.yaml
   13  kubectl  apply  -f ~/prompt-escargot/buffalo-deployment.yaml
   14  kubectl  get pods -n gorilla
   15  kubectl  get deploy -n gorilla
   16  kubectl config use-context k8s
   17  kubectl edit deploy ckad00017-deployment -n ckad00017
   18  kubectl  expose  deploy ckad00017-deployment -n ckad00017 --name=cherry --port=8888 --type=NodePort
   19  kubectl get svc
   20  kubectl get svc  -n ckad00017
   21  kubectl  expose  service   deploy ckad00017-deployment -n ckad00017 --name=cherry --port=8888 --type=NodePort
   22  kubectl get svc  -n ckad00017
   23  history
andidate@node-1:~$
```

NEW QUESTION # 156

Context



Task:
1- Update the Propertunel scaling configuration of the Deployment web1 in the ckad00015 namespace setting maxSurge to 2 and maxUnavailable to 59
2- Update the web1 Deployment to use version tag 1.13.7 for the Ifconf/nginx container image.
3- Perform a rollback of the web1 Deployment to its previous version

Answer:

Explanation:
Solution:

```
File Edit View Terminal Tabs Help
itched to context "k8s".
ndidate@node-1:~$ kubectl  create  secret  generic  app-secret -n default  --from-literal=key3=value1
cret/app-secret created
ndidate@node-1:~$ kubectl get secrets
ME          TYPE     DATA   AGE
p-secret    Opaque   1      4s
ndidate@node-1:~$ kubectl  run nginx-secret -n default  --image=nginx:stable --dry-run=client -o yaml> sec.yaml
ndidate@node-1:~$ vim sec.yaml
ndidate@node-1:~$ kubectl  create  -f sec.yaml
d/nginx-secret created
ndidate@node-1:~$ kubectl  get pods
ME           READY   STATUS    RESTARTS   AGE
inx-secret   1/1     Running   0          7s
ndidate@node-1:~$ kubectl config use-context k8s
itched to context "k8s".
ndidate@node-1:~$ kubectl  edit deploy web1 -n ckad00015
eployment.apps/web1 edited
ndidate@node-1:~$ kubectl  rollout  status  deploy web1 -n ckad00015
eployment "web1" successfully rolled out
ndidate@node-1:~$ kubectl  rollout undo  deploy web1 -n ckad00015
eployment.apps/web1 rolled back
ndidate@node-1:~$ kubectl  rollout  history  deploy web1 -n ckad00015
eployment.apps/web1
EVISION  CHANGE-CAUSE
         <none>
         <none>

ndidate@node-1:~$ kubectl get rs -n ckad00015
ME              DESIRED   CURRENT   READY   AGE
b1-56f98bcb79   0         0         0       63s
b1-85775b6b79   2         2         2       6h53m
ndidate@node-1:~$
```

NEW QUESTION # 157
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 # 158
.....

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