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Linux Foundation Certified Kubernetes Application Developer Exam Sample Questions (Q144-Q149):

NEW QUESTION # 144
You are building a container image for a Spring Boot application that connects to a MySQL database. The application requires specific environment variables, such as the database nostname, username, password, and port. How would you define these environment variables Within the Docker-file to ensure the application runs correctly in a Kubernetes cluster?

Answer:

Explanation:
See the solution below with Step by Step Explanation.
Explanation:
1. Define Environment Variables in Docker-file:
- Utilize the 'ENV' instruction within your Dockerfile to set the necessary environment variables.
- These variables will be accessible to your Spring Boot application during runtime.
- Example:
dockerfile

```
FROM openjdk:11-jre-slim
COPY target/your-app.jar app.jar
ENV DATABASE_HOSTNAME=your-db-hostname
ENV DATABASE_USER=your-db-username
ENV DATABASE_PASSWORD=your-db-password
ENV DATABASE_PORT=3306
CMD ["java", "-jar", "app.jar"]
```

2. Build the Docker Image: - Construct your Docker image using the Docker-file. - Run the following command: 'docker build -t your-image-name 3. Deploy to Kubernetes: - Create a Deployment or Pod in Kubernetes that utilizes your built image. - Ensure the pod's environment variables align with the ones defined in your Dockerfile. - Example (Deployment YAML):

```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: my-app-deployment
spec:
  replicas: 2
  selector:
    matchLabels:
      app: my-app
  template:
    metadata:
      labels:
        app: my-app
    spec:
      containers:
      - name: my-app
        image: your-image-name
        env:
        - name: DATABASE_HOSTNAME
          value: your-db-hostname
        - name: DATABASE_USER
          value: your-db-username
        - name: DATABASE_PASSWORD
          value: your-db-password
        - name: DATABASE_PORT
          value: "3306"
```

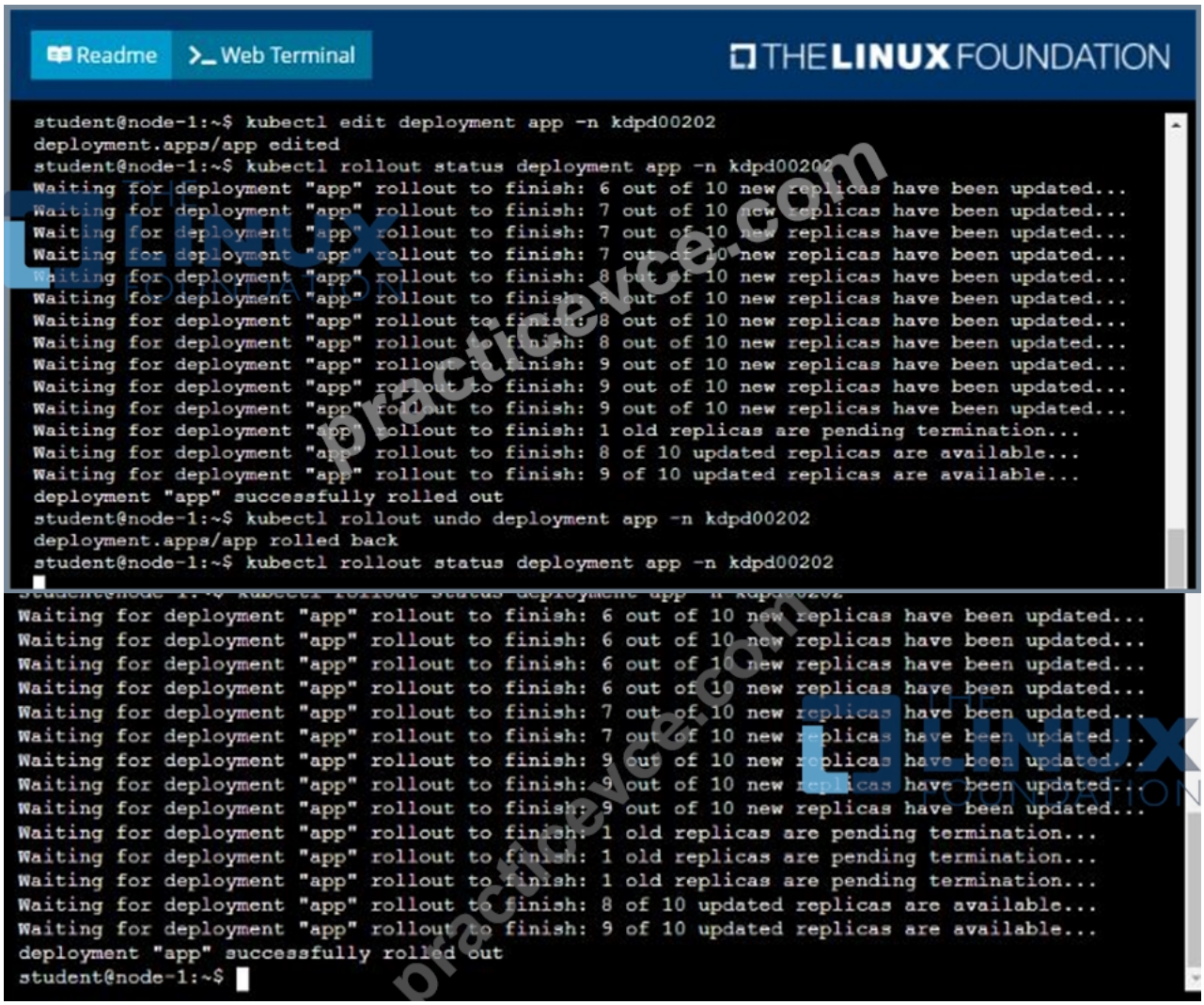
4. Verify Application Functionality: - Access your deployed application in the Kubernetes cluster. - Verify that it connects successfully to the database and operates as expected.

NEW QUESTION # 145
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 # 146
You are tasked with deploying a stateful application, a distributed database, that requires persistent storage and consistent ordering of pods. The application's pods need to communicate With each other using a specific port (5432). How would you configure a StatefulSet to achieve this?

Answer:

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

```yaml
apiVersion: apps/v1
kind: StatefulSet
metadata:
  name: my-database
spec:
  serviceName: "my-database"
  replicas: 3
  selector:
    matchLabels:
      app: my-database
  template:
    metadata:
      labels:
        app: my-database
    spec:
      containers:
      - name: database
        image: postgres:14.2
        ports:
        - containerPort: 5432
        volumeMounts:
        - name: data
          mountPath: /var/lib/postgresql/data
      volumes:
      - name: data
        persistentVolumeClaim:
          claimName: my-database-pvc
```


2. Create a PersistentVolumeClaim (PVC):

```yaml
apiVersion: v1
kind: PersistentVolumeClaim
metadata:
  name: my-database-pvc
spec:
  accessModes:
    - ReadWriteOnce
  resources:
    requests:
      storage: 1Gi
```


3. Apply the StatefulSet and PVC: bash kubectl apply -f statefulset.yaml kubectl apply -f pvc.yaml 4. Check the StatefuISet and Pods: bash kubectl get statefulsets my-database kubectl get pods -l app=my-database - StatefulSet This defines the desired state for the database pods, ensuring tneir order and persistent storage. - serviceName: This field defines the service name used to access the database instances. - replicas: Defines the desired number of database instances (3 in this example). - selector: Matches pods with the "app: my-database" label. - template: Defines the pod template to use for each instance. - containers: Contains the database container definition. - ports: Exposes the database's internal port (5432) to the outside world. - volumeMounts: Mounts the persistent volume claim to the container's storage directory. - volumes: Defines the volume to use, in this case, a persistent volume claim. - persistentVolumeClaim: Links the StatefulSet to the PVC- - PVC (my-database-pvc): Requests a persistent volume of 1 Gi for each database pod. This ensures data persistence between restarts. - accessM0des: ReadWriteOnce: Allows only one pod to access the volume at a time. - resources-requests-storage: Specifies the storage request for each PVC- This setup ensures that each database pod: - Has a unique name based on its ordinal position within the StatefulSet - Has persistent storage using the PVC. - Can communicate with otner pods through the defined service. - Maintains consistent ordering, essential for distributed database functionality

NEW QUESTION # 147

You have a Deployment named that runs 3 replicas of a Wordpress container. You need to implement a rolling update strategy that allows for a maximum or two pods to be unavailable at any given time during the update process. Additionally, you want to ensure that the update process is triggered automatically whenever a new image is pushed to the Docker Hub repository 'wordpress/wordpress:latest'.

Answer:

Explanation:

See the solution below with Step by Step Explanation.
Explanation:
Solution (Step by Step) :
1. IJPdate the Deployment YAMLI
- Update the 'replicas to 2.
- Define 'maxunavailable: 2 and 'maxSurge: O' in the 'strategy.rollingupdate' section to control the rolling update process.
- Configure a 'strategy-type' to 'RollingIJpdate' to trigger a rolling update when the deployment is updated.
- Add a 'spec-template-spec-imagePullPolicy: Always" to ensure that the new image is pulled even if it exists in the pod's local cache.

```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: wordpress-deployment
spec:
  replicas: 2
  selector:
    matchLabels:
      app: wordpress
  template:
    metadata:
      labels:
        app: wordpress
    spec:
      containers:
      - name: wordpress
        image: wordpress/wordpress:latest
        imagePullPolicy: Always
  strategy:
    type: RollingUpdate
    rollingUpdate:
      maxUnavailable: 2
      maxSurge: 0
```

2. Create the Deployment - Apply the updated YAML file using 'kubectl apply -f wordpress-deploymentyamr 3. Verify the Deployment: - Check the status of the deployment using 'kubectl get deployments wordpress-deployment to confirm the rollout and updated replica count. 4. Trigger the Automatic Update: - Push a new image to the 'wordpress/wordpress:latest' Docker Hub repository. 5. Monitor the Deployment: - Use 'kubectl get pods -l app=wordpress' to monitor the pod updates during the rolling update process. You will observe that two pods are terminated at a time, while two new pods with the updated image are created. 6. Check for Successful Update: - Once the deployment is complete, use 'kubectl describe deployment wordpress-deployment' to see that the 'updatedReplicas' field matches the 'replicas' field, indicating a successful update.

NEW QUESTION # 148
You have a Kustomization file that applies a patch to the 'spec-template-spec-containers-image' field of a Deployment However, you are now using a newer version of Kubernetes and have received warnings about the deprecated 'spec.template.spec' path. How can you update the Kustomization file to use the recommended API path, ensuring the patch still applies correctly?

Answer:

Explanation:
See the solution below with Step by Step Explanation.
Explanation:
Solution (Step by Step) :
1. Identify the Deprecated Path: The original Kustomization file likely has a patch like this:

```
patchesStrategicMerge:
  - patch.yaml
```

Where 'patch.yamr contains:

```
- op: replace
  path: /spec/template/spec/containers/0/image
  value: new-image;latest
```

2. IJpdate the Patch Path: Replace the deprecated path with the recommended one: Vspec/template/spec.containers/0/image' -> /spec/template.container/0/images

```
- op: replace
  path: /spec/template/spec.containers/0/image
  value: new-image:latest
```

3. Apply the IJpdated Kustomizatiom Re-apply the Kustomization file With the updated patch. 4. Verify the Patch: Verify that the updated Deployment now uses the new image by checking the 'spec-template.spec.contajners.image' field. This example

demonstrates updating a Kustomization file to use the correct API path for a patch. It is important to regularly review Kustomization files and apply any necessary updates to avoid issues with API deprecations and ensure compatibility with the latest Kubernetes versions.,

NEW QUESTION # 149

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