CKAD Exam Questions & Answers: Linux Foundation Certified Kubernetes Application Developer Exam & CKAD Exam Braindumps

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Linux Foundation Certified Kubernetes Application Developer (CKAD) Certification Exam is a rigorous test designed to evaluate the expertise of developers working with Kubernetes. Kubernetes is an open-source container orchestration system that automates the deployment, scaling, and management of containerized applications. It is widely used by organizations to manage their cloud-native applications, and the demand for certified Kubernetes developers is increasing day by day. The CKAD certification exam validates the skills and knowledge of developers in designing, building, configuring, and deploying cloud-native applications on Kubernetes.

The Linux Foundation CKAD exam consists of a set of performance-based tasks that assess a candidate's proficiency in various aspects of Kubernetes. The tasks include deploying applications, configuring and managing Kubernetes resources, implementing security and networking policies, and troubleshooting issues. CKAD exam is conducted in a live environment, and candidates need to solve the tasks using a command-line interface, which makes it a real-world test of their skills.

Linux Foundation CKAD Certification Exam is an excellent certification program for developers who work with Kubernetes. Linux Foundation Certified Kubernetes Application Developer Exam certification exam is designed to test the candidate's ability to deploy,

manage and troubleshoot Kubernetes applications. Linux Foundation Certified Kubernetes Application Developer Exam certification exam is an online, proctored exam that can be taken from anywhere in the world. Linux Foundation Certified Kubernetes Application Developer Exam certification is ideal for developers who are looking to advance their careers in the field of cloud-native application development and for organizations who are looking to identify qualified professionals who can help them to build and manage Kubernetes applications.

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Linux Foundation Certified Kubernetes Application Developer Exam Sample Questions (Q137-Q142):

NEW QUESTION # 137
You are deploying a web application that uses a separate database pod. The database pod is managed by a StatefulSet, and the web application pods need to access the database using tne database pod'S nostname. Explain how you can configure the web application pods to access the database pod using the hostname provided by the StatefulSet.

Answer:

Explanation:
See the solution below with Step by Step Explanation.
Explanation:
Solution (Step by Step) :
1. Configure the StatefulSet:
- Define the database pod within a StatefulSet.
- Ensure that the StatefulSet assigns a unique hostname to each pod, making it accessible by name-
- Example:

2. Configure the Deployment: - Denne the web application pod Within a Deployment. - Use the 'hostAliaseS field in the Deployment's 'spec.template.spec.containers' to map the database pod's hostname to its IP address. - Example:

```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: webapp-deployment
spec:
  replicas: 3
  selector:
    matchLabels:
      app: webapp
  template:
    metadata:
      labels:
        app: webapp
    spec:
      containers:
      - name: webapp
        image: webapp:latest
        ports:
        - containerPort: 8080
        hostAliases:
        - ip: "10.96.0.10"
          hostnames: ["database-service"]
```

3. Access Database by Hostname: - Within tne web application's code, you can now access the database using the hostname "database-service" without needing to know the database pod's actual IP address. - Kubernetes will automatically resolve the hostname to the correct IP address based on the hostAliases configuration. 4. Deploy and Test: - Deploy the StatefulSet and Deployment. - Test the web application to ensure that it can connect to the database using the provided hostname. 5. Important - The ' hostAliases' approach is typically used for cases where the database pod's hostname is consistent and predictable. - It might not be suitable for scenarios involving dynamic pod scaling or where the database pod's hostname changes frequently. - In those scenarios, consider using a Service and Service discovery mechanism to connect to the database.

NEW QUESTION # 138
Refer to Exhibit.

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 # 139
You have a Spring Boot application that requires access to a PostgreSQL database. Implement a sidecar container pattern using a PostgreSQL container within the same pod to provide database access for the application. Ensure tnat tne application can connect to the database through the PostgreSQL container's service name.

Answer:

Explanation:
See the solution below with Step by Step Explanation.
Explanation:
Solution (Step by Step) :
1. Define the PostgreSQL Container:
- Create a YAML file (e.g., 'postgresql-sidecar.yaml') to define the PostgreSQL container as a sidecar-
- Specify the image, resource requests, and ports for the PostgreSQL container.
- Define the container's environment variables, including the database name, username, and password.
- Add a volume mount to share a persistent volume claim (PVC) for database data.

```
apiVersion: v1
kind: Pod
metadata:
  name: spring-boot-app-with-sidecar
spec:
  containers:
  - name: spring-boot-app
    image: your-spring-boot-application-image:latest
    ports:
    - containerPort: 8080
    env:
    - name: DB_HOST
      value: postgresql-sidecar
    - name: DB_PORT
      value: "5432"
    - name: DB_USER
      value: "postgres"
    - name: DB_PASSWORD
      value: "your-password"
    volumeMounts:
    - name: postgresql-data
      mountPath: /var/lib/postgresql/data
  - name: postgresql-sidecar
    image: postgres:latest
    ports:
    - containerPort: 5432
    env:
    - name: POSTGRES_USER
      value: "postgres"
    - name: POSTGRES_PASSWORD
      value: "your-password"
    - name: POSTGRES_DB
      value: "your-database-name"
    volumeMounts:
    - name: postgresql-data
      mountPath: /var/lib/postgresql/data
  volumes:
  - name: postgresql-data
    persistentVolumeClaim:
      claimName: your-pvc-name
```

2. Create a Persistent Volume Claim (PVC): - Create a PVC (e.g., 'postgresql-pvc.yaml') to store the PostgreSQL data. - Specify the storage class, access modes, and storage capacity for the PVC.

```
apiVersion: v1
kind: PersistentVolumeClaim
metadata:
  name: your-pvc-name
spec:
  accessModes:
  - ReadWriteOnce
  resources:
    requests:
      storage: 1Gi
  storageClassName: your-storage-class-name
```

3. Configure the Spring Boot Applicatiom - Update your Spring Boot application to connect to the database using the environment variables you defined. - Ue the service name 'postgresql-sidecar' to access the PostgreSQL database from within the application. 4. Deploy the Pod: - Apply the YAML file to create the pod using 'kubectl apply -f spring-boot-app-with-sidecar_yaml' 5. Verify the Deployment: - Check the status of the pod using 'kubectl get pods' - Verity that both the Spring Boot application container and the PostgreSQL sidecar container are running. - Access your application's endpoint to ensure it can successfully connect to the database and perform operations. Important Notes: - Replace 'your-spring-boot-application-image:latest , 'your-password' , 'your-database-name', 'your-pvc-name' , and 'your-storage-class-name' with your actual values. - You may need to adjust the resource requests and limits for the containers based on your application's requirements. - The PostgreSQL container will initialize the database and

stan the service automatically.]

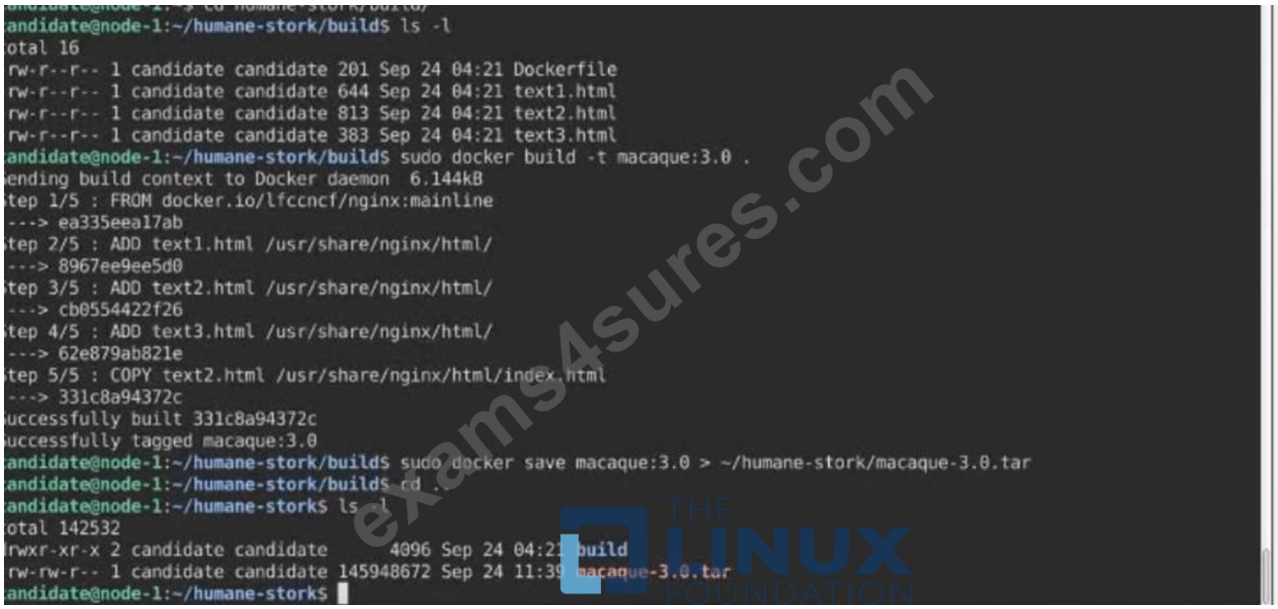
NEW QUESTION # 140
Refer to Exhibit.

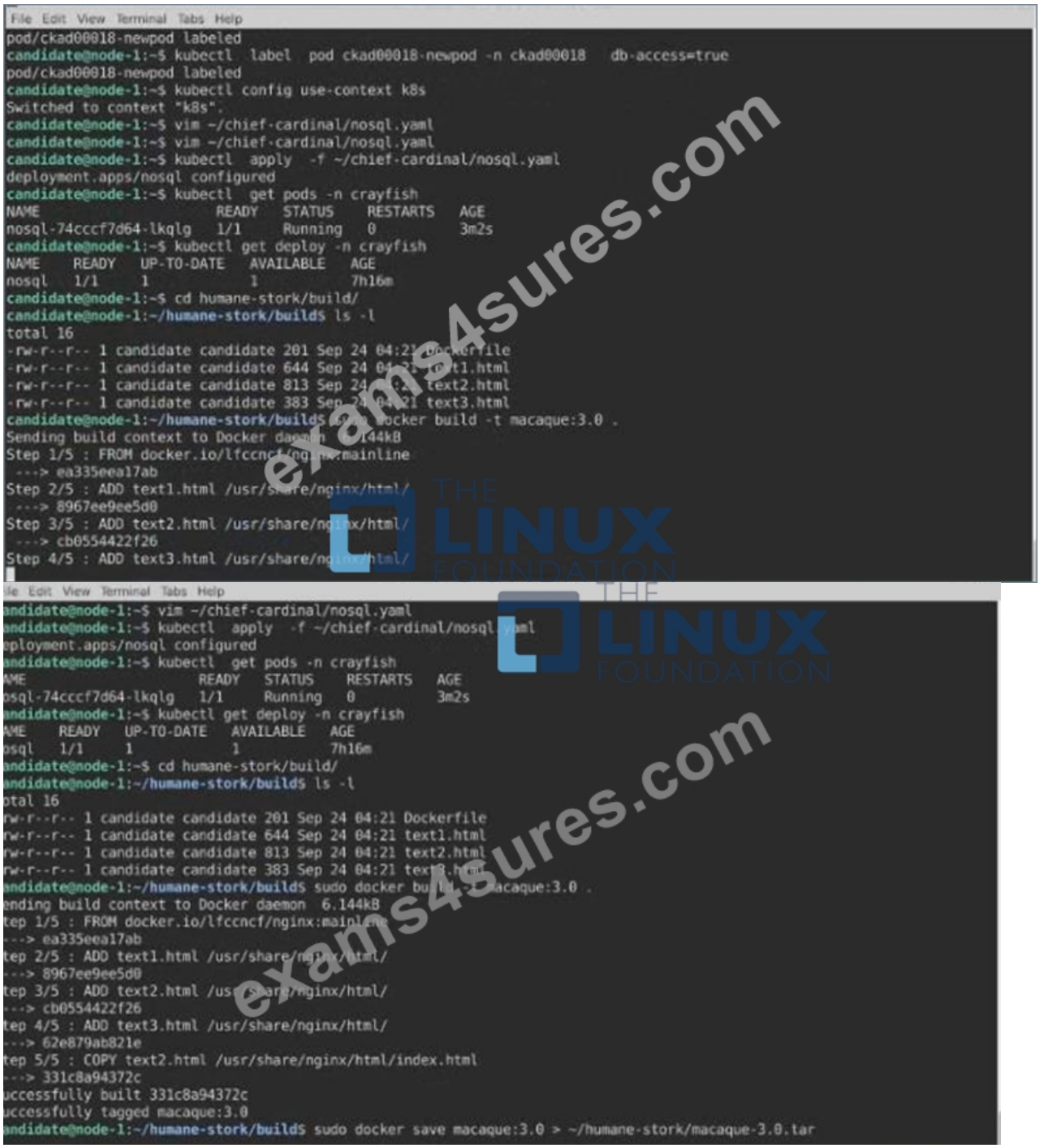
Task:
A Dockerfile has been prepared at -/human-stork/build/Dockerfile
1) Using the prepared Dockerfile, build a container image with the name macque and lag 3.0. You may install and use the tool of your choice.

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

Answer:

Explanation:
Solution:





NEW QUESTION # 141

Task:

1- Update the Propertunel scaling configuration of the Deployment web1 in the ckad00015 namespace setting maxSurge to 2 and maxUnavailable to 59

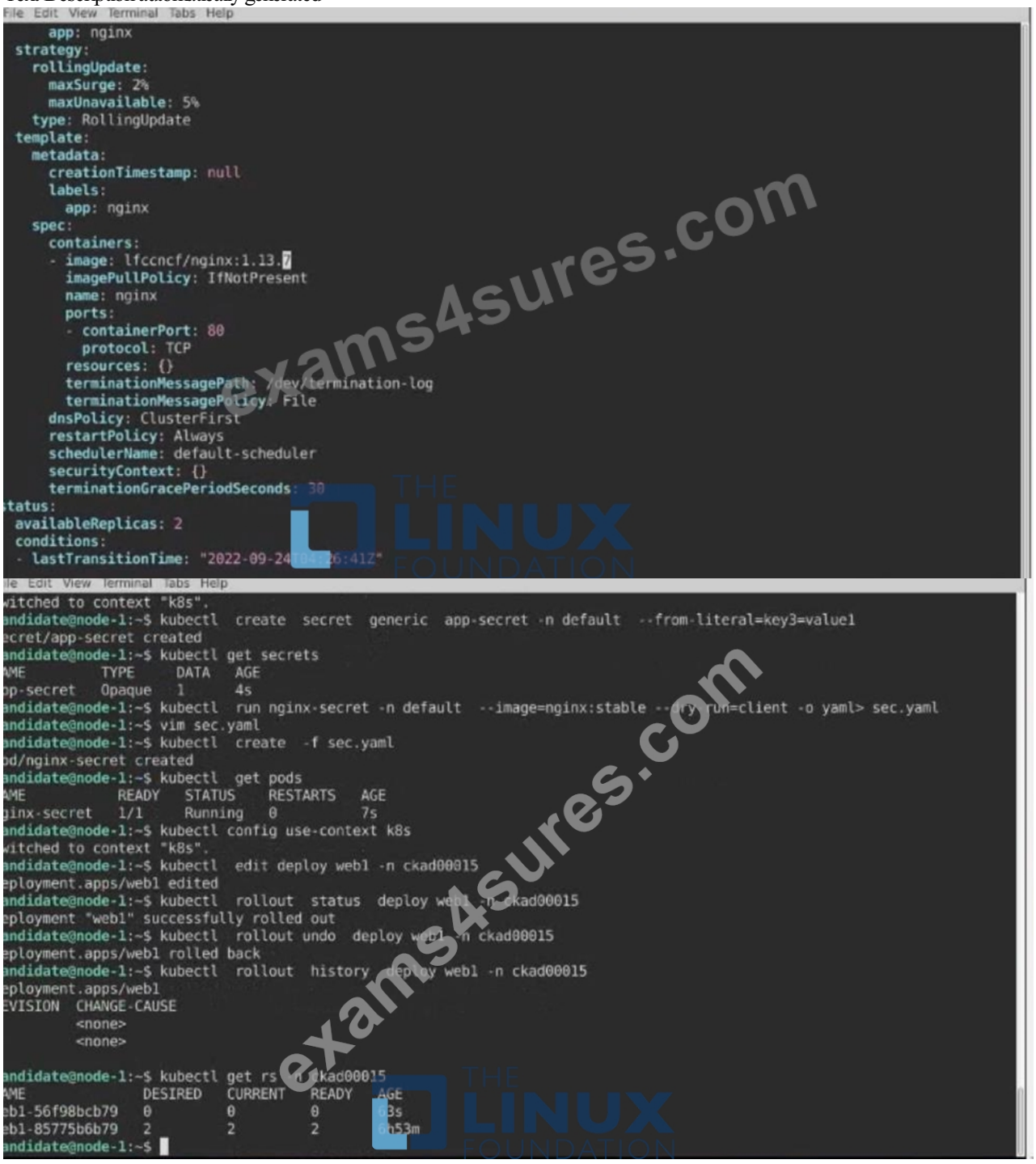
2- Update the web1 Deployment to use version tag 1.13.7 for the Ifconf/nginx container image.

3- Perform a rollback of the web1 Deployment to its previous version

Answer:

Explanation:
See the solution below.
Explanation
Solution:

Text Description automatically generated



NEW QUESTION # 142
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