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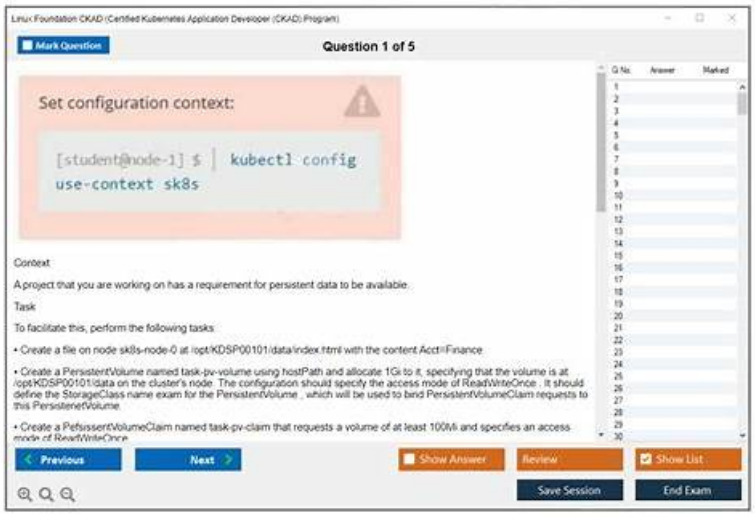

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The CKAD Exam is a hands-on, performance-based exam that tests the candidate's ability to deploy, configure, and manage Kubernetes applications. CKAD exam is designed to be challenging and comprehensive, covering all aspects of Kubernetes application development, including Kubernetes basics, application design and deployment, troubleshooting, and automation.

Linux Foundation Certified Kubernetes Application Developer Exam Sample Questions (Q133-Q138):

NEW QUESTION # 133
You are building a new web application that utilizes a microservice architecture- One of the microservices, 'recommendation-service', is responsible for providing personalized product recommendations to users.
This service uses a machine learning model for generating recommendations based on user purchase history and browsing behavior.

The model is trained offline and its weights are stored in a 'model-store' service.
Design a mufti-container Pod for the 'recommendation-service' that incorporates the following considerations:
- The Pod should include a primary container for the 'recommendation-service' application.
- The Pod should include a secondary container that runs the 'model-store' service to provide access to the trained model weights.
- Both containers should share a common volume to ensure that the model weights are available to the 'recommendation-service' container-
- The recommendation-service' snould be able to access the model weignts from the 'model-store' container witnout relying on a network call to another service-
- The recommendation-service' container should be configured to periodically update the model weights from the 'model-store' container when a new version of the model is available.

Answer:

Explanation:
See the solution below with Step by Step Explanation.
Explanation:
Solution (Step by Step) :
1. Create the Deployment YAML:
- Define a Deployment with the name 'recommendation-service'
- Set the replicas to for redundancy and scalability.
- Specify the labels Sapp: recommendation-service' for selecting the Pods in the Deployment.
- Create a 'template' section to define the Pod specificatiom

```yaml
apiVersion: apps/v1
kind: Deployment
metadata:
  name: recommendation-service
spec:
  replicas: 3
  selector:
    matchLabels:
      app: recommendation-service
  template:
    metadata:
      labels:
        app: recommendation-service
    spec:
      containers:
      - name: recommendation-service
        image: example/recommendation-service:latest
        ports:
        - containerPort: 8080
        volumeMounts:
        - name: model-store
          mountPath: /model
        env:
        - name: MODEL_PATH
          value: /model/latest-model.weights
        command: ["python", "manage.py", "runserver", "0.0.0.0:8080"]
      - name: model-store
        image: example/model-store:latest
        volumeMounts:
        - name: model-store
          mountPath: /model
      volumes:
      - name: model-store
        emptyDir: {}
```


2. Deploy the Resources: - Apply the Deployment using 'kubectl apply -f deployment-yamp 3. Verify the Deployment: - Check the status of the Deployment using 'kubectl get deployments recommendation-service and ensure that three Pods are running. 4. Contigure the 'recommendation-service' - Modify the 'recommendation-service application to load the model weights from the specified path ClmodeVIatest-modeI_weightS). - Implement a mechanism within the 'recommendation-service to periodically check

tor updated model weights in the shared volume. 5. Configure the 'model-store service: - Ensure that the model-store service is properly configured to store and retrieve the model weights. - Implement a mechanism in the 'model-store' service to notify the 'recommendation-service when a new model version is available. This notification can be achieved using a shared volume or a separate messaging system. 6. Test the Application: - Send requests to the 'recommendation-service' to generate recommendations. - Monitor the 'model-store' service and the shared volume to verify that the model weights are being updated correctly and the recommendation- service' is using the latest model version. Important Considerations: - Ensure that the 'recommendation-service' application is properly configured to access and load the model weights from the shared volume. - Implement a robust model management strategy, including versioning and rollback mechanisms, to ensure that the recommendation-service always uses the appropriate model. - Consider using a dedicated model store service that provides a dedicated API for retrieving and updating model weights. This can simplify the communication between the 'recommendation-service' and the model store. - Monitor the performance and resource usage of both services to ensure optimal performance.,

NEW QUESTION # 134
You are running a critical application that requires high availability and minimal downtime during updates. Your current deployment strategy uses a single Deployment with 3 replicas. You need to ensure that during updates, only one pod is unavailable at any given time, minimizing service disruption. Design a deployment strategy that meets this requirement and allows for seamless updates.

Answer:

Explanation:
See the solution below with Step by Step Explanation.
Explanation:
Solution (Step by Step) :
1. Define Rolling Update Strategy:
- In your Deployment configuration, specify the rolling update strategy with 'maxunavailable: 1 s and 'maxSurge: O'. This ensures that during updates, only one pod is taken down at a time, while the remaining two continue serving traffic.

```yaml
apiVersion: apps/v1
kind: Deployment
metadata:
  name: critical-app-deployment
spec:
  replicas: 3
  selector:
    matchLabels:
      app: critical-app
  template:
    metadata:
      labels:
        app: critical-app
    spec:
      containers:
      - name: critical-app
        image: your-image-repo:latest
  strategy:
    type: RollingUpdate
    rollingUpdate:
      maxUnavailable: 1
      maxSurge: 0
```

2. Use Liveness and Readiness Probes: - Configure liveness and readiness probes for your application containers. Liveness probes Check tne nealth of running containers and restan them if unhealthy. Readiness probes check if a container is ready to receive traffic. - This ensures that only healthy pods are marked as ready, and traffic is routed only to ready pods.

```yaml
apiVersion: apps/v1
kind: Deployment
metadata:
  name: critical-app-deployment
spec:
  replicas: 3
  selector:
    matchLabels:
      app: critical-app
  template:
    metadata:
      labels:
        app: critical-app
    spec:
      containers:
      - name: critical-app
        image: your-image-repo:latest
        livenessProbe:
          tcpSocket:
            port: 8080
          initialDelaySeconds: 15
          periodSeconds: 20
          failureThreshold: 3
        readinessProbe:
          tcpSocket:
            port: 8080
          initialDelaySeconds: 5
          periodSeconds: 10
          failureThreshold: 2
  strategy:
    type: RollingUpdate
    rollingUpdate:
      maxUnavailable: 1
      maxSurge: 0
```

3. Implement Horizontal Pod Autoscaling (HPA): - Set up HPA to automatically scale the number of pods based on CPU or memory utilization- This ensures that the application can handle increased trattiC during updates without compromising performance. - You can configure the desired minimum and maximum replicas for the HPA based on your application's requirements. 4. Use Service with Session Affinity: - Configure your Service to use 'ClientIP' or 'Cookie' session affinity. This ensures that client connections are consistently routed to the same pod during the rolling update, minimizing disruption for users.

```yaml
apiVersion: v1
kind: Service
metadata:
  name: critical-app-service
spec:
  selector:
    app: critical-app
  ports:
  - protocol: TCP
    port: 80
    targetPort: 8080
  sessionAffinity: ClientIP
```

5. Use Daemonsets for System Components: - If you have any system components (like monitoring agents or log collectors) that need to run on every node in the cluster, use DaemonSets instead of Deployments. - DaemonSets ensure that these components are always running on all nodes, even during node restarts or updates, ensuring continuous monitoring and logging.

NEW QUESTION # 135
You are running a web application on a Kubernetes cluster, and you want to ensure that thecontainer running your application is protected from potential security vulnerabilities. You are specifically concerned about unauthorized access to the container's filesystem. Explain how you would implement AppArmor profiles to restrict access to the container's filesystem.

Answer:

Explanation:
See the solution below with Step by Step Explanation.

Explanation:
Solution (Step by Step) :
1. Define the AppArmor Profile:
- Create a new AppArmor profile file, for example, 'nginx-apparmor.conf, within your Kubernetes configuration directory.
- Within this file, define the restrictions for the container.
- For instance, to allow access to specific directories and files:
include common AppArmor profile
include /etc/apparmor.d/abstractions/base/nginx.apparmor
Allow access to specific directories
/var/www/html r,
/etc/nginx r,
Allow access to specific files
/etc/nginx/nginx.conf r,
/usr/sbin/nginx r,
Deny access to all other files and directories
Deny
2. Load the AppArmor Profile:
- Use the create configmap' command to create a ConfigMap containing your AppArmor profile:
Bash
kubectl create configmap nginx-apparmor-profile --from-file=nginx-apparmor.conf
3. Apply the Profile to Your Deployment:
- Update your Deployment YAML file to include the AppArmor profile:

```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: nginx-deployment
spec:
  replicas: 2
  selector:
    matchLabels:
      app: nginx
  template:
    metadata:
      labels:
        app: nginx
    spec:
      containers:
      - name: nginx
        image: nginx:latest
        securityContext:
          # Enable AppArmor and specify the profile name
          appArmor: nginx-apparmor-profile
      # ... (rest of your Deployment YAML)
```


4. Restart the Pods: - Apply the updated Deployment YAML using 'kubectl apply -f nginx-deployment.yaml' - The updated deployment will restart the pods with the new AppArmor profile. 5. Verify the Profile: - Check the status of the pods with 'kubectl describe pod - Look for the "Security Context" section and verify that the AppArmor profile is correctly applied. 6. Test the Restrictions: - Try to access files or directories that are not allowed by your AppArmor profile. - This will help you confirm that the profile is effectively restricting access.

NEW QUESTION # 136
You have a microservice application that relies on a Redis cacne for data retrieval. Design a multi-container Pod that incorporates a Redis sidecar container to provide local caching within the Pod. Ensure that the main application container can access the Redis sidecar container within the same Pod Namespace Without needing to communicate with an external Redis cluster.

Answer:

Explanation:
See the solution below with Step by Step Explanation.
Explanation:
Solution (Step by Step) :
1. Define the Pod YAML: Create a Pod YAML file that includes both the main application container and the Redis sidecar container.

```
apiVersion: v1
kind: Pod
metadata:
  name: my-app-pod
spec:
  containers:
  - name: my-app
    image: my-app-image:latest
    ports:
    - containerPort: 8080
    env:
    - name: REDIS_HOST
      value: redis
  - name: redis
    image: redis:latest
    ports:
    - containerPort: 6379
```

2. Configure Environment Variables: Set an environment variable 'REDIS HOST within the main application container to point to the Redis sidecar containers hostname- In Kubernetes, containers within the same Pod can communicate with each other using their container names. 3. Connect Application to Redis: Modifry' the application code to connect to the Redis instance using the 'REDIS HOST environment variable. For example, using a Python application with the 'redis-py' library: python import redis r = redis-Redis(host=os.environ.get('REDlS_HOST'), port=6379) # Perform Redis operations (e.g., r.set('key', 'value')) 4. Deploy the Pod: Apply the Pod YAML using 'kubectl apply -f my-app-pod.yamr 5. Verify Connectivity: Check the logs of the main application container to ensure it's successfully connecting to the Redis sidecar container Note: This approach provides local caching within the Pod, reducing external network calls and improving performance. It's important to consider potential data consistency issues if multiple Pods share the same Redis instance.

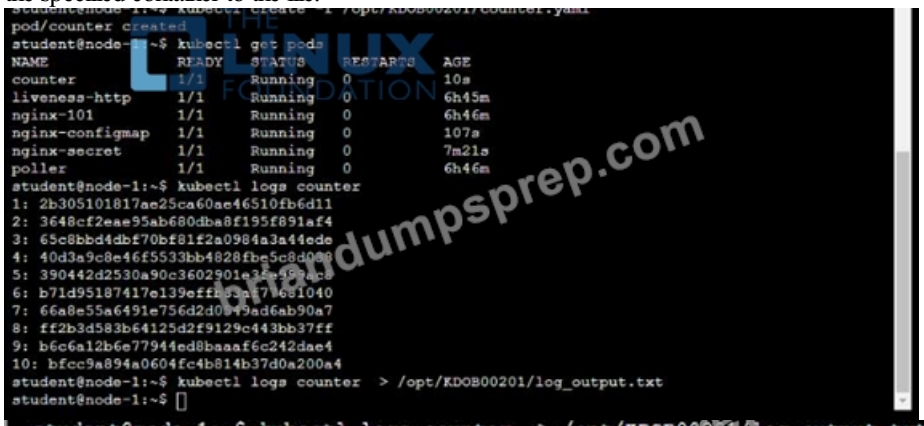
NEW QUESTION # 137
Refer to Exhibit.

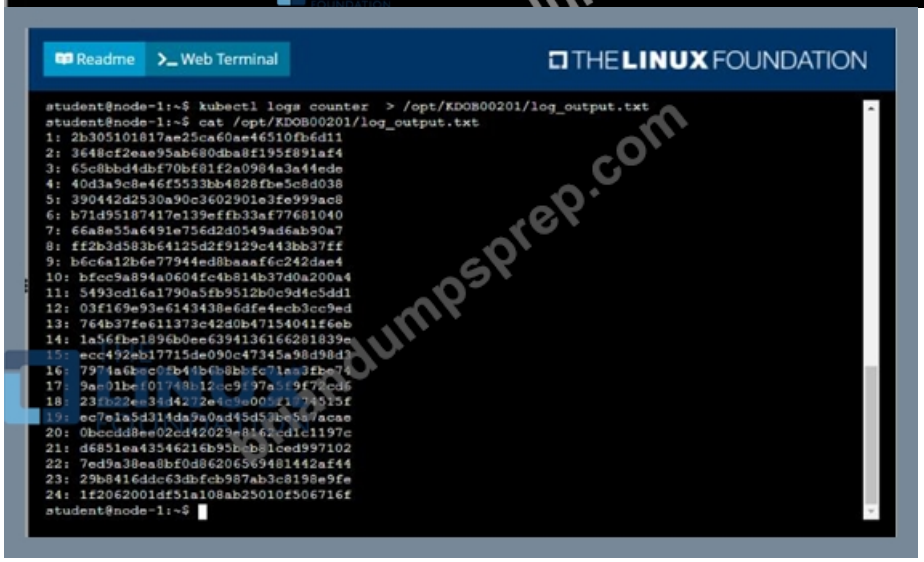
Set Configuration Context:
[student@node-1] $ | kubectl
Config use-context k8s
Context
You sometimes need to observe a pod's logs, and write those logs to a file for further analysis.
Task
Please complete the following;
* Deploy the counter pod to the cluster using the provided YAMLspec file at /opt/KDOB00201/counter.yaml
* Retrieve all currently available application logs from the running pod and store them in the file /opt/KDOB0020l/log_Output.txt,

which has already been created

Answer:

Explanation:
Solution:
To deploy the counter pod to the cluster using the provided YAML spec file, you can use the kubectl apply command. The apply command creates and updates resources in a cluster.
kubectl apply -f /opt/KDOB00201/counter.yaml
This command will create the pod in the cluster. You can use the kubectl get pods command to check the status of the pod and ensure that it is running.
kubectl get pods
To retrieve all currently available application logs from the running pod and store them in the file /opt/KDOB0020l/log_Output.txt, you can use the kubectl logs command. The logs command retrieves logs from a container in a pod.
kubectl logs -f <pod-name> > /opt/KDOB0020l/log_Output.txt
Replace <pod-name> with the name of the pod.
You can also use -f option to stream the logs.
kubectl logs -f <pod-name> > /opt/KDOB0020l/log_Output.txt &
This command will retrieve the logs from the pod and write them to the /opt/KDOB0020l/log_Output.txt file.
Please note that the above command will retrieve all logs from the pod, including previous logs. If you want to retrieve only the new logs that are generated after running the command, you can add the --since flag to the kubectl logs command and specify a duration, for example --since=24h for logs generated in the last 24 hours.
Also, please note that, if the pod has multiple containers, you need to specify the container name using -c option.
kubectl logs -f <pod-name> -c <container-name> > /opt/KDOB0020l/log_Output.txt The above command will redirect the logs of the specified container to the file.





NEW QUESTION # 138
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