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The CKAD certification exam is designed to test the skills and knowledge of developers in various areas of Kubernetes application development. CKAD exam covers a wide range of topics such as core Kubernetes concepts, pod design and configuration, services and networking, storage, security, and troubleshooting. CKAD Exam is a hands-on, performance-based exam, which means that candidates are required to perform real-world tasks on a live Kubernetes cluster within a given time frame.

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Linux Foundation Certified Kubernetes Application Developer Exam Sample Questions (Q145-Q150):

NEW QUESTION # 145
You have a Deployment named 'wordpress-deployment' that runs 3 replicas of a WordPress container. You want to ensure that the deployment is always updated with the latest image available in the 'wordpress/wordpress:latest' Docker Hub repository However, you need to implement a rolling update strategy that allows for a maximum ot two pods to be unavailable during the update process.

Answer:

Explanation:

See the solution below with Step by Step Explanation.
Explanation:
Solution (Step by Step) :
1. IJpdate the Deployment YAML:
- Update the 'replicas to 3-
- Define 'maxunavailable: 2 and 'maxSurge: in the 'strategy.rollingupdate' section.
- 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.
2. Create the Deployment: - Apply the updated YAML file using 'kubectl apply -f wordpress-deployment.yamr 3. Verify the Deployment: - Check tne 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 -I 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 # 146
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
Text Description automatically generated
Text Description automatically generated

NEW QUESTION # 147
You have a Kubernetes cluster With a Deployment named 'my-app' running multiple replicas of your application. You need to ensure that only authorized users can access the application's pods through the Kubernetes APL Implement a role-based access control (RBAC) policy that allows only users in the "developers' group to access the pods of the 'my-app' Deployment.

Answer:

Explanation:
See the solution below with Step by Step Explanation.
Explanation:
Solution (Step by Step) :
1. Create a Role: Define a Role that grants access to the 'my-app' Deployment pods.
2. Create a RoleBinding: Bind the created Role to the 'developers' group.
3. Apply the Role and RoleBinding: use 'kubectl apply' to create the Role and ROIeBinding resources. bash kubectl apply -f my-app-pod-readenyaml kubectl apply -f my-app-pod-reader-binding.yaml 4. Verify Access: Attempt to access the pods of the 'my-app' Deployment from a user in the "developers' group. You should be able to access the pods. Attempt to access the pods from a user not in the 'developers' group. You should receive an error indicating insufficient permissions.,

NEW QUESTION # 148
You have a web application that uses two different services: 'frontend' and 'backend'. You want to restrict access to the 'backend' service from all pods except those with the label 'app: frontend'. How would you configure NetworkPolicy to achieve this?

Answer:

Explanation:
See the solution below with Step by Step Explanation.
Explanation:
- Replace with your actual namespace. 2. Apply the NetworkPolicy: - Run the following command to apply the NetworkPolicy: bash kubectl apply -f backend-networkpolicy.yaml - This NetworkPolicy defines a policy for pods with the label 'app: backend'. - The 'ingress' rule allows traffic only from pods with the label 'app: frontend'. - All other pods will be blocked from accessing the 'backend' service. This ensures that only the frontend' service can communicate with the 'backend' service. ,

NEW QUESTION # 149
You are building a microservices architecture for a web application. One of your services handles user authentication. To ensure the service remains available even if one of the pods fails, you need to implement a high-availability solution. Design a deployment strategy for the authentication service that utilizes Kubernetes features to achieve high availability and fault tolerance.

Answer:

Explanation:
See the solution below with Step by Step Explanation.
Explanation:
Solution (Step by Step) :
1. Deploy as a StatefulSet:
- Use a StatefulSet to deploy your authentication service. StatefulSets maintain persistent storage and unique identities for each pod, ensuring that data is preserved and the service can recover from failures without losing state.
2. I-Ise Persistent Volumes: - Provision persistent volumes for each pod in the StatefulSet to store sensitive data like user credentials or session information. This ensures that the data persists even if a pod iS restarted or replaced. 3. Configure a Service with Load Balancing: - Create a Service that uses a load balancer (like a Kubernetes Ingress or external load balancer) to distribute traffic across the replicas of your authentication service. This ensures that requests are evenly distributed, even if some pods are down.
4. Implement Health Checks: - Set up liveness and readiness probes for the authentication service. Liveness probes ensure that unhealthy pods are restarted, while readiness probes ensure that only nealtny pods receive traffic. 5. Enable TLS/SSL: - Secure your authentication service with TLS/SSL to protect sensitive user data during communication. You can use certificates issued by a certificate authority (CA) or self-signed certificates for development environments. 6. Consider a Distributed Cache: - For improved performance and scalability, consider using a distributed cache like Redis or Memcached to store frequently accessed data, such as user authentication tokens. This can reduce the load on the authentication service and improve user response times.

NEW QUESTION # 150
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