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Linux Foundation Certified Kubernetes Application Developer Exam Sample Questions (Q176-Q181):

NEW QUESTION # 176

You have a Deployment named 'nginx-deployment' running 3 replicas of an Nginx container. You need to ensure that all 3 pods are using the same ConfigMap for configuration. Additionally, you need to configure the ConfigMap so that changes made to it are automatically reflected in the running pods without requiring a new Deployment update.

Answer:

Explanation:

See the solution below with Step by Step Explanation.

Explanation:

Solution (Step by Step) :

1. Create the ConfigMap:

2. Apply the ConfigMap: `bash kubectl apply -f nginx-config.yaml` 3. Update the Deployment to use the ConfigMap:

4. Apply the updated Deployment `bash kubectl apply -f nginx-deployment.yaml` 5. Verify the Deployment: `bash kubectl get deployments nginx-deployment` You should see that the Deployment is using the 'nginx-config' ConfigMap for its configuration. 6.

Test the automatic update: - Modify the 'nginx-config' ConfigMap: `bash kubectl edit configmap nginx-config` Change the 'nginx_conf' value in the ConfigMap. - Verify the change in the pods: `bash kubectl exec -it -- bash -c 'cat /etc/nginxconf-d/nginx_conf'` Replace with the name of one of the pods- This command will display the contents of the nginx configuration file within the pod. You will observe that the nginx configuration file in the running pods is automatically updated without needing a Deployment update.

NEW QUESTION # 177

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/KDOB00201/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/KDOB00201/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/KDOB00201/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/KDOB00201/log_Output.txt &
```

This command will retrieve the logs from the pod and write them to the `/opt/KDOB00201/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/KDOB00201/log_Output.txt
```

 The above command will redirect the logs of the specified container to the file.

NEW QUESTION # 178

You have a Deployment named 'nginx-deployment' running 3 replicas of an Nginx container. You need to ensure that all 3 pods are using the same ConfigMap for configuration. Additionally, you need to configure the ConfigMap so that changes made to it are automatically reflected in the running pods without requiring a new Deployment update.

Answer:

Explanation:

See the solution below with Step by Step Explanation.

Explanation:

Solution (Step by Step) :

1. Create the ConfigMap:

2. Apply the ConfigMap: `bash kubectl apply -f nginx-config.yaml` 3. Update the Deployment to use the ConfigMap:

4. Apply the updated Deployment `bash kubectl apply -f nginx-deployment.yaml` 5. Verify the Deployment: `bash kubectl get deployments nginx-deployment` You should see that the Deployment is using the 'nginx-config' ConfigMap for its configuration. 6.

Test the automatic update: - Modify the 'nginx-config' ConfigMap: `bash kubectl edit configmap nginx-config` Change the 'nginx_conf' value in the ConfigMap. - Verify the change in the pods: `bash kubectl exec -it -- bash -c 'cat /etc/nginxconf-d/nginx_conf'` Replace with the name of one of the pods- This command will display the contents of the nginx configuration file within the pod. You will observe that the nginx configuration file in the running pods is automatically updated without needing a Deployment update.

NEW QUESTION # 179

You have a Deployment running a web application that is scaling dynamically based on traffic. However, the application occasionally experiences Slow response times during peak traffic periods. You suspect that the pods are being scheduled on nodes that are already under pressure. To improve the performance, you want to implement node affinity, ensuring that pods are scheduled on nodes with specific labels that indicate high resources and low utilization.

Answer:

Explanation:

See the solution below with Step by Step Explanation.

Explanation:

Solution (Step by Step) :

1. Define Node Labels:

- Identify nodes with high resources and low utilization.
- Label these nodes with a specific label like 'high-resource':

bash

`kubectl label nodes node-name high-resource=true`

2. Configure Node Affinity in Deployment

- Update the Deployment YAML to include node affinity rules.
- `preferredDuringSchedulingIgnoredDuringExecution`: This affinity rule indicates a preference for scheduling pods on nodes with specific labels. It doesn't prevent scheduling on other nodes if preferred nodes are unavailable.

3. Apply the Deployment Configuration: - Apply the updated Deployment configuration to your Kubernetes cluster: `bash kubectl apply -f my-web-app-deployment.yaml` 4. Monitor Pod Scheduling: - Use '`kubectl get pods -l app=my-web-app`' to monitor the pod scheduling. - Verify that the pods are being scheduled on nodes with the 'high-resource' label.

NEW QUESTION # 180

You're working on a Kubernetes application that involves retrieving data from a database. You have a Deployment With multiple pods, each accessing the database directly. To improve the application's performance and reliability, you want to implement an adapter pattern that introduces a service layer to handle database interactions. This layer should be responsible for connection pooling, caching, and error handling, making the application more resilient to database outages.

Answer:

Explanation:

See the solution below with Step by Step Explanation.

Explanation:

Solution (Step by Step) :

1. Create a Service Account:

- Create a service account for the application. This will be used by the service layer to access the database.
- Apply the service account to the cluster: `'kubectl apply -f db-service-account.yaml'` 2. Create a Role and RoleBinding: - Create a role that grants the necessary permissions to access the database.
- Create a role binding that associates the role with the service account

- Apply the role and role binding to the cluster: - '`kubectl apply -f db-access-role.yaml`' - '`kubectl apply -f db-access-binding.yaml`

3. Create the Service Layer Deployment: - Deploy the service layer component. This can be a containerized application that handles database interactions.

- Apply the deployment: '`kubectl apply -f db.-service.yaml`' 4. Create a Secret for Database Credentials: - Create a secret to store

sensitive database credentials.

- Apply the secret 'kubectl apply -f db-credentials.yaml' 5. Create a Service for the Service Layer: - Create a service to expose the service layer to the application pods.

- Apply the service: 'kubectl apply -f db-seMce.yaml' 6. Update the Application Deployment: - Update the Deployment for your main application to use the service layer.

T Test and Verify' - Verify the changes: - Check the logs for both the service layer and the application. - Test your application's functionality. Note: - Ensure to replace placeholders like ". ". ". ". ". ". and with your actual values. - This is a basic example, and you may need to adjust the configuration based on your specific service layer and database implementation. ,

NEW QUESTION # 181

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