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Exercises get you ready for the Certified Kubernetes Application Developer exam



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Kubernetes is an open-source system for automating deployment, scaling, and management of containerized applications. The CNCF/Linux Foundation offers this performance-based exam which targets the developer aspect of kubernetes skills such as

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Linux Foundation Certified Kubernetes Application Developer Exam Sample Questions (Q115-Q120):

NEW QUESTION # 115

Exhibit:

Context

A container within the poller pod is hard-coded to connect the nginxsvc service on port 90 . As this port changes to 5050 an additional container needs to be added to the poller pod which adapts the container to connect to this new port. This should be realized as an ambassador container within the pod.

Task

* Update the nginxsvc service to serve on port 5050.

* Add an HAproxy container named haproxy bound to port 90 to the poller pod and deploy the enhanced pod. Use the image haproxy and inject the configuration located at /opt/KDMC00101/haproxy.cfg, with a ConfigMap named haproxy-config, mounted into the container so that haproxy.cfg is available at /usr/local/etc/haproxy/haproxy.cfg. Ensure that you update the args of the poller container to connect to localhost instead of nginxsvc so that the connection is correctly proxied to the new service endpoint. You must not modify the port of the endpoint in poller's args . The spec file used to create the initial poller pod is available in /opt/KDMC00101/poller.yaml

- **A. Solution:**
apiVersion: apps/v1
kind: Deployment
metadata:
name: my-nginx
spec:
selector:
matchLabels:
run: my-nginx
replicas: 2
template:
metadata:
labels:
run: my-nginx
spec:
containers:
- name: my-nginx
image: nginx
ports:
- containerPort: 90

This makes it accessible from any node in your cluster. Check the nodes the Pod is running on:

```
kubectl apply -f ./run-my-nginx.yaml
```

```
kubectl get pods -l run=my-nginx -o wide
```

```
NAME READY STATUS RESTARTS AGE IP NODE
```

```
my-nginx-3800858182-jr4a2 1/1 Running 0 13s 10.244.3.4 kubernetes-minion-905m
```

```
my-nginx-3800858182-kna2y 1/1 Running 0 13s 10.244.2.5 kubernetes-minion-ljyd
```

Check your pods' IPs:

```
kubectl get pods -l run=my-nginx -o yaml | grep podIP
```

```
podIP: 10.244.3.4
```

```
podIP: 10.244.2.5
```

- **B. Solution:**
apiVersion: apps/v1

```
kind: Deployment
metadata:
  name: my-nginx
spec:
  selector:
  matchLabels:
  run: my-nginx
  - name: my-nginx
  image: nginx
  ports:
  - containerPort: 90
```

This makes it accessible from any node in your cluster. Check the nodes the Pod is running on:

```
kubectl apply -f ./run-my-nginx.yaml
```

```
kubectl get pods -l run=my-nginx -o wide
```

```
NAME READY STATUS RESTARTS AGE IP NODE
```

```
my-nginx-3800858182-jr4a2 1/1 Running 0 13s 10.244.3.4 kubernetes-minion-905m
```

```
my-nginx-3800858182-kna2y 1/1 Running 0 13s 10.244.2.5 kubernetes-minion-ljyd
```

Check your pods' IPs:

```
kubectl get pods -l run=my-nginx -o yaml | grep podIP
```

```
podIP: 10.244.3.4
```

```
podIP: 10.244.2.5
```

Answer: A

NEW QUESTION # 116

You are building a microservice that requires a specific configuration file to be mounted into the container. This configuration file should be updated without restarting the microservice container. How can you achieve this using Kubernetes?

Answer:

Explanation:

See the solution below with Step by Step Explanation.

Explanation:

Solution (Step by Step) :

1. use ConfigMaps:

- Create a 'ConfigMap' to store the configuration file.

- Create a YAML file (e.g., 'config.yaml') with your configuration content:

2. Mount the ConfigMap: - In your 'Deployment definition, mount the 'configMap' into the container using a volume mount

3. Update the Configuration: - Update the 'ConfigMap' directly using ' kubectl patch configmap my-microservice-config -type-

merge -p '{"data": {"config-json": "updated" - The changes will be reflected in the mounted volume inside the container. 4. Access the

Configuration: - Your microservice code should read the configuration file from the mounted path (e.g., '/etc/config')- Note: This

approach avoids restarting the container when you need to update the configuration. The 'ConfigMaps acts as a persistent volume,

and changes to its content are automatically reflected in the mounted volume inside the container

NEW QUESTION # 117

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 the database pod's hostname. 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: - Define 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:
3. Access Database by Hostname: - Within the 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 # 118

Context

Task:

- 1) Create a secret named app-secret in the default namespace containing the following single key-value pair:
Key3: value1
- 2) Create a Pod named nginx secret in the default namespace. Specify a single container using the nginx:stable image. Add an environment variable named BEST_VARIABLE consuming the value of the secret key3.

Answer:

Explanation:

Solution:

NEW QUESTION # 119

You have a Kubernetes cluster running a microservices application. The application has a set of microservices deployed as Deployments, each with their own set of resource requests and limits. You want to implement a monitoring system to track the resource utilization of these microservices.

Answer:

Explanation:

See the solution below with Step by Step Explanation.

Explanation:

Solution (Step by Step) :

1. Install Prometheus: Prometheus is an open-source monitoring system that collects and stores metrics. You can install Prometheus in your Kubernetes cluster using a Deployment:
2. Create a ConfigMap for Prometheus: Define a ConfigMap to configure Prometheus with the desired scrape targets and other settings:
3. Create a Service for Prometheus: Create a Service to expose Prometheus outside the cluster:
4. Install Grafana: Grafana is a popular open-source dashboard and visualization tool. You can install Grafana in your Kubernetes cluster using a Deployment:
5. Create a ConfigMap for Grafana: Create a ConfigMap to configure Grafana with Prometheus as the data source:
6. Create a Service for Grafana: Create a Service to expose Grafana outside the cluster:
7. Configure Grafana: Access the Grafana web interface (using the LoadBalancer IP address) and configure a new data source for Prometheus. Specify the Prometheus Service address.
8. Create Dashboards: Create dashboards in Grafana to visualize the metrics collected by Prometheus. You can create dashboards for individual microservices, showing metrics like CPU usage, memory usage, network traffic, and response times.
9. Monitor Your Microservices: Once you have dashboards set up, you can monitor your microservices' resource utilization and performance in real time. Use Grafana's alerting features to be notified of any issues or potential problems. ,

NEW QUESTION # 120

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