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Linux Foundation Certified Kubernetes Application Developer Exam Sample Questions (Q83-Q88):

NEW QUESTION # 83

Refer to Exhibit.

Set Configuration Context:

```
[student@node-1] $ | kubectl
```

```
Config use-context k8s
```

```
Context
```

A pod is running on the cluster but it is not responding.

Task

The desired behavior is to have Kubernetes restart the pod when an endpoint returns an HTTP 500 on the /healthz endpoint. The service, probe-pod, should never send traffic to the pod while it is failing. Please complete the following:

- * The application has an endpoint, /started, that will indicate if it can accept traffic by returning an HTTP 200. If the endpoint returns an HTTP 500, the application has not yet finished initialization.
- * The application has another endpoint /healthz that will indicate if the application is still working as expected by returning an HTTP 200. If the endpoint returns an HTTP 500 the application is no longer responsive.
- * Configure the probe-pod pod provided to use these endpoints
- * The probes should use port 8080

Answer:

Explanation:

Solution:

To have Kubernetes automatically restart a pod when an endpoint returns an HTTP 500 on the /healthz endpoint, you will need to configure liveness and readiness probes on the pod.

First, you will need to create a livenessProbe and a readinessProbe in the pod's definition yaml file. The livenessProbe will check the /healthz endpoint, and if it returns an HTTP 500, the pod will be restarted. The readinessProbe will check the /started endpoint, and if it returns an HTTP 500, the pod will not receive traffic.

Here's an example of how you can configure the liveness and readiness probes in the pod definition yaml file:

```
apiVersion: v1
kind: Pod
metadata:
  name: probe-pod
spec:
  containers:
  - name: probe-pod
    image: <image-name>
    ports:
    - containerPort: 8080
    livenessProbe:
      httpGet:
        path: /healthz
        port: 8080
      initialDelaySeconds: 15
      periodSeconds: 10
      failureThreshold: 3
    readinessProbe:
      httpGet:
        path: /started
        port: 8080
      initialDelaySeconds: 15
      periodSeconds: 10
      failureThreshold: 3
```

The httpGet specifies the endpoint to check and the port to use. The initialDelaySeconds is the amount of time the pod will wait before starting the probe. periodSeconds is the amount of time between each probe check, and the failureThreshold is the number of failed probes before the pod is considered unresponsive.

You can use kubectl to create the pod by running the following command:

```
kubectl apply -f <filename>.yaml
```

Once the pod is created, Kubernetes will start monitoring it using the configured liveness and readiness probes. If the /healthz endpoint returns an HTTP 500, the pod will be restarted. If the /started endpoint returns an HTTP 500, the pod will not receive traffic.

Please note that if the failure threshold is set to 3, it means that if the probe fails 3 times consecutively it will be considered as a failure.

The above configuration assumes that the application is running on port 8080 and the endpoints are available on the same port.

NEW QUESTION # 84

You are tasked with designing a multi-container Pod that hosts both a web server and a database. The web server should be able to connect to the database within the pod- How would you implement this design, including networking considerations?

Answer:

Explanation:

See the solution below with Step by Step Explanation.

Explanation:

Solution (Step by Step) :

1. Define the Pod YAML:- Create a Pod definition that includes two containers: one for the web server and one for the database.
2. Configure Networking: The key to allowing the web server to connect to the database is to use the pod's internal network. Since containers within a pod share the same network namespace, you can configure the webserver to connect to the database using the name "db".
3. Environment Variables: Set an environment variable (CDB_HOST) within the webserver container to point to the database container by its name. This ensures the web server can correctly connect to the database within the pod.
4. Pod Deployment: Apply the YAML to create the pod using 'kubectl apply -f web-db-pod.yaml'.
5. Verification: To check the pod's status: - Run 'kubectl get pods' - Check the logs of the web server container to confirm it can connect to the database.
6. Important Note: In this example, we're using the default pod networking within Kubernetes. For more complex applications, consider using a service to expose the database container. This will allow access to the database from outside the pod.,

NEW QUESTION # 85

You are developing a multi-container application that includes a web server, a database, and a message broker. You want to ensure that the database and message broker start before the web server to avoid dependency issues. How can you design your deployment to achieve this?

Answer:

Explanation:

See the solution below with Step by Step Explanation.

Explanation:

Solution (Step by Step) :

1. Define Pod with Containers:
 - Create a 'Pod' definition with three containers: 'web-server', 'database', and 'message-broker'
 - Include the appropriate image names for each container.
2. Implement Init Containers: - Define 'initContainers' within the 'Pod' spec to run containers before the main application containers.
 - Use 'initContainers' to set up the database and message broker:
3. Apply the Pod Definition: - Apply the 'Pod' definition using 'kubectl apply -f multi-container-app.yaml'
4. Verify Container Startup Order: - Check the pod logs using 'kubectl logs -f multi-container-app'. You will observe the init containers ('database-init' and 'message-broker-init') starting first, followed by the main containers ('web-server', 'database', and 'message-broker'). Note: In this example, the 'database-init' and 'message-broker-init' containers simply print a message. You can replace these with actual initialization scripts or commands relevant to your specific database and message broker services.

NEW QUESTION # 86

You're building a Kubernetes application that manages user profiles and requires a custom resource for storing profile information. Design a custom resource definition (CRD) and its corresponding controller, ensuring that every time a profile is created or updated, a unique user ID is assigned to the profile.

Answer:

Explanation:

See the solution below with Step by Step Explanation.

Explanation:

Solution (Step by Step) :

1. Create the Custom Resource Definition (CRD)
 - Define the CRD Spec:
 - Apply the CRD: `bash kubectl apply -f profile-crd.yaml`
2. Create a Controller for the Custom Resource: - Define the Controller Logic:
 - Check the 'userId' field in the output. You should see the automatically generated unique user ID. This comprehensive solution

demonstrates how to implement a custom resource definition and a controller for managing user profiles in Kubernetes. You can adjust the code and logic according to your specific requirements. ,

NEW QUESTION # 87

You have a Deployment named 'wordpress-deployment' that runs 3 replicas of a WordPress container. The container image is pulled from a private registry with authentication credentials stored in a secret called 'registry-credentials' _ Implement a strategy to ensure that only one replica of the Deployment is updated at a time, and the update process is triggered automatically whenever a new image is pushed to the private registry with the tag 'wordpress:latest'

Answer:

Explanation:

See the solution below with Step by Step Explanation.

Explanation:

Solution (Step by Step) :

1. Create a Secret for Registry Credentials:

- Replace with the base64 encoded content of your dockerconfigson file containing the registry credentials. 2 Update the Deployment YAML:

- Replace 'your-registry-com' with your private registry address. - Ensure the 'imagePullSecrets' section references the 'registry-credentials' secret. - Configure the 'strategy-type' to 'Rollingupdate', and 'strategy-rolling-lpdate.maxunavailable' to ' 1 ' to allow only one replica to be unavailable during the update. - Set 'imagePullPolicy' to 'Always' to ensure the new image is pulled every time. 3. Apply the Updated YAML: bash kubectl apply -fwordpress-deploymentyaml 4. Verify the Deployment bash kubectl get deployments wordpress-deployment 5. Trigger the Automatic Update: - Push a new image with the tag 'wordpress:latest' to your private registry. 6. Monitor the Deployment - Use 'kubectl get pods -lapp=wordpress' to monitor the pod updates during the rolling update process. 7. Check for Successful Update: - After the update is complete, run 'kubectl describe deployment wordpress-deployment' to verify that the 'updatedReplicaS matches the 'replicas' field. Now, whenever a new image tagged 'wordpress:latest' is pushed to your private registry, Kubernetes will automatically trigger a rolling update for the 'wordpress-deployment , updating one replica at a time while ensuring availability.,

NEW QUESTION # 88

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