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Linux Foundation Certified Kubernetes Application Developer Exam Sample Questions (Q234-Q239):

NEW QUESTION # 234
You have a Deployment named 'wordpress-deployment' that runs a WordPress application. You want to ensure that Kubernetes automatically restarts pods if tney experience an unexpected termination, such as a container crasn. Implement the necessary configuration for your deployment.

Answer:

Explanation:
See the solution below with Step by Step Explanation.
Explanation:
Solution (Step by Step) :
I). Update the Deployment YAML:
- Add the 'restartpolicy: Always to the 'spec.template_spec.containers' section of your Deployment YAML. This ensures that the pod will always be restarted if a container terminates unexpectedly.

```yaml
apiVersion: apps/v1
kind: Deployment
metadata:
  name: wordpress-deployment
spec:
  replicas: 3
  selector:
    matchLabels:
      app: wordpress
  template:
    metadata:
      labels:
        app: wordpress
    spec:
      containers:
      - name: wordpress
        image: wordpress:latest
        restartPolicy: Always
```

2. Apply the Deployment - Apply the updated Deployment YAML using: bash kubectl apply -f wordpress-deployment-yaml 3. Test the Restart Policy: - Simulate a container crash within a pod (e.g., by sending a SIGKILL Signal to the container). - Observe the pod status using 'kuactl get pods -l app=wordpress' . You snould see the pod being automatically restarted, and the 'STATUS should become 'Running' again. Important Note: - The restaAPolicy: Always' is the default setting for Kubernetes deployments. By explicitly adding it to your YAML, you ensure that this behavior is documented and consistent within your deployment configuration.,

NEW QUESTION # 235
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:

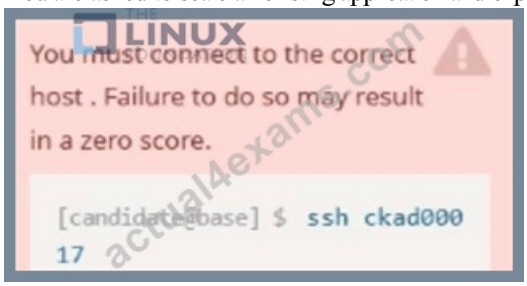
Explanation:
See the solution below with Step by Step Explanation.
Explanation:

```yaml
apiVersion: networking.k8s.io/v1
kind: NetworkPolicy
metadata:
  name: backend-policy
  namespace:
spec:
  podSelector:
    matchLabels:
      app: backend
  ingress:
  - from:
    - podSelector:
        matchLabels:
          app: frontend
```

- 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 # 236

Context
You are asked to scale an existing application and expose it within your infrastructure.



First, update the Deployment nginx-deployment in the prod
namespace :
. to run 2 replicas of the Pod
. add the following label to the Pod :
role: webFrontEnd
Next, create a NodePort Service named rover in the prod namespace exposing the nginx-deployment Deployment 's Pods See the Explanation below for complete solution.

Answer:

Explanation:
Below is an exam-style, step-by-step solution (commands + verification). Follow exactly on host ckad000.
0) Connect to the right host
ssh ckad000
(Optional but good sanity check)
kubectl config current-context
kubectl get ns
1) Inspect the existing Deployment (to know its labels/ports)
kubectl -n prod get deploy nginx-deployment
kubectl -n prod get deploy nginx-deployment -o wide
Check what labels the Pod template already has (important for the Service selector):
kubectl -n prod get deploy nginx-deployment -o jsonpath='{.spec.template.metadata.labels} {"\n"}' Check container ports (so we expose the correct targetPort):
kubectl -n prod get deploy nginx-deployment -o jsonpath='{.spec.template.spec.containers[0].ports} {"\n"}' If ports output is empty, it's still often nginx on 80, but the safest is to confirm by describing a pod later.
2) Update Deployment to 2 replicas
Fastest:
kubectl -n prod scale deploy nginx-deployment --replicas=2
Verify:
kubectl -n prod get deploy nginx-deployment
3) Add label role=webFrontEnd to the Pod (Pod template label)
You must add it under:
spec.template.metadata.labels
Use a patch (quick + safe):
kubectl -n prod patch deploy nginx-deployment \
-p '{"spec":{"template":{"metadata":{"labels":{"role":"webFrontEnd"}}}}}' Verify the Deployment template now includes it:
kubectl -n prod get deploy nginx-deployment -o jsonpath='{.spec.template.metadata.labels} {"\n"}' Now verify the running Pods have the label (important!):
kubectl -n prod get pods --show-labels
If the label doesn't show on pods immediately, wait for rollout:
kubectl -n prod rollout status deploy nginx-deployment
kubectl -n prod get pods --show-labels
4) Create a NodePort Service rover exposing the Deployment's Pods
4.1 Get a reliable target port
Try to read containerPort:
kubectl -n prod get deploy nginx-deployment -o jsonpath='{.spec.template.spec.containers[0].ports[0].
containerPort} {"\n"}'
* If this prints a number (commonly 80), use it as --target-port.
* If it prints nothing/empty, check a pod:
POD=$(kubectl -n prod get pod -l role=webFrontEnd -o jsonpath='{.items[0].metadata.name}') kubectl -n prod describe pod "$POD" | sed -n '/Containers:/,/Conditions:/p' | sed -n '/Ports:/,/Environment:/p' Assuming nginx is on 80 (most common), create the

service:
kubectl -n prod expose deploy nginx-deployment \
--name=rover \
--type=NodePort \
--port=80 \
--target-port=80
If your nginx container port is different (e.g., 8080), change --target-port=8080 accordingly.
5) Verify Service + endpoints (critical)
kubectl -n prod get svc rover -o wide
kubectl -n prod describe svc rover
kubectl -n prod get endpoints rover -o wide
You should see 2 endpoints (matching 2 pods).
Also confirm the pods are Ready:
kubectl -n prod get pods -l role=webFrontEnd -o wide
Quick "CKAD checkpoints"
* Deployment in prod has replicas=2
* Pod template has label role=webFrontEnd
* Service rover in prod is NodePort
* Service endpoints point to the nginx pods

NEW QUESTION # 237
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:

```yaml
apiVersion: apps/v1
kind: Deployment
metadata:
  name: nginx-deployment
spec:
  replicas: 3
  selector:
    matchLabels:
      app: nginx
  template:
    metadata:
      labels:
        app: nginx
    spec:
      containers:
      - name: nginx
        image: nginx:latest
        volumeMounts:
        - name: nginx-config-volume
          mountPath: /etc/nginx/conf.d
      volumes:
      - name: nginx-config-volume
        configMap:
          name: nginx-config
```

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/nginxfconf-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 # 238
You have a Kubernetes cluster with a namespace called 'dev' and a deployment named 'app-deployment' in that namespace. You need to create a new Role that allows users in the 'developers' group to only scale the Sapp-deployment' deployment. They should not be able to access any other resources in the 'dev' namespace. Implement the RBAC configuration for this scenario.

Answer:

Explanation:
See the solution below with Step by Step Explanation.
Explanation:
Solution (Step by Step) :
1. Create a Role:
- Create a YAML file named 'scale-app-role.yaml' with the following content:

```yaml
apiVersion: rbac.authorization.k8s.io/v1
kind: Role
metadata:
  name: scale-app-role
  namespace: dev
rules:
- apiGroups: ["apps"]
  resources: ["deployments"]
  verbs: ["get", "list", "watch", "update", "patch", "scale"]
  resourceNames: ["app-deployment"]
```

2. Create a RoleBinding: - Create a YAML file named 'scale-app-rolebinding.yaml' with the following content:

3. Apply the configuration: - Apply the Role and Role8inding using the following commands: bash kubectl apply -f scale-app-role.yaml kubectl apply -f scale-app-rolebinding-yaml 4. Verify the configuration: - You can verify the configuration by using the following command: bash kubectl auth can-i --list --as=user:testuser--group-developers--namespace-dev - Replace 'testuser' with the name of a user in the 'developers' group. The output should show only the following permissions: - 'apps/deployments': 'get, "list, 'watch', 'update', 'patch', 'scale' 5. Test the permissions: - Try to scale the Sapp-deployment deployment using the 'kubectr command as a user in the 'developers group. - Try to perform other actions on the deployment or other resources in the 'devs namespace. You should only be able to scale the Sapp-deployment deployment.

NEW QUESTION # 239

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