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Linux Foundation Certified Kubernetes Application Developer Exam Sample Questions (Q114-Q119):

NEW QUESTION # 114

Exhibit:



Context

It is always useful to look at the resources your applications are consuming in a cluster.

Task

* From the pods running in namespace cpu-stress , write the name only of the pod that is consuming the most CPU to file /opt/KDOB0301/pod.txt, which has already been created.

- A. Solution:



- B. Solution:



Answer: B

NEW QUESTION # 115

Refer to Exhibit.



Set Configuration Context:

[student@node-1] \$ | kubectl

Config use-context k8s

Task

You have rolled out a new pod to your infrastructure and now you need to allow it to communicate with the web and storage pods but nothing else. Given the running pod kdsn00201 -newpod edit it to use a network policy that will allow it to send and receive traffic only to and from the web and storage pods.

All work on this item should be conducted in the kdsn00201 namespace.



All required NetworkPolicy resources are already created and ready for use as appropriate. You should not create, modify or delete any network policies whilst completing this item.



Answer:

Explanation:

To allow a pod to send and receive traffic only to and from specific pods, you can use network policies in Kubernetes.

First, you will need to create a network policy that defines the allowed traffic. You can create a network policy yaml file with the following rules:

```
apiVersion: networking.k8s.io/v1
```

```
kind: NetworkPolicy
```

```
metadata:
```

```
name: newpod-network-policy
```

```
namespace: default
```

```
spec:
```

```
podSelector:
```

```
matchLabels:
```

```
app: kdsn00201-newpod
```

```
ingress:
```

```
- from:
```

```
- podSelector:
```

```
matchLabels:
```

```
app: web
```

```
- podSelector:
```

```
matchLabels:
```

```
app: storage
```

This policy will only allow incoming traffic to the pod with the label app=kdsn00201-newpod from pods with the label app=web or app=storage. If you have different labels on your web and storage pods please update the matchLabels accordingly.

Once you have created the network policy, you can apply it to the cluster by running the following command:

```
kubectl apply -f <network-policy-file>.yaml
```

This will apply the network policy to the cluster, and the newpod will only be able to send and receive traffic to and from the web and storage pods.

Please note that, NetworkPolicy resource is not available by default, you need to enable the NetworkPolicy feature on your Kubernetes cluster. This feature is enabled by default on some clusters and must be explicitly enabled on others. You can check if

NetworkPolicy is available by running the command `kubectl api-versions | grep networking`. Also, you need to ensure that the pods that you want to allow traffic to and from are running on the same namespace.

NEW QUESTION # 116

You have a microservice that is constantly updated with new features and bug fixes. You want to deploy new versions of this service in a way that minimizes downtime and avoids disrupting the existing application. Explain how you can use Kubernetes features to achieve this goal.

Answer:

Explanation:

See the solution below with Step by Step Explanation.

Explanation:

Solution (Step by Step) :

1. Use a Deployment:

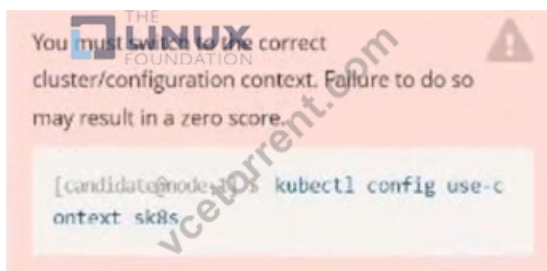
- Create a 'Deployment' object to manage your microservice.
- Specify the desired number of replicas and the container image.
- Use a 'rollingUpdate' strategy to control the update process.

```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: my-microservice
spec:
  replicas: 3
  selector:
    matchLabels:
      app: my-microservice
  template:
    metadata:
      labels:
        app: my-microservice
    spec:
      containers:
      - name: my-microservice
        image: example/my-microservice:latest
  strategy:
    type: RollingUpdate
    rollingUpdate:
      maxSurge: 1
      maxUnavailable: 0
```

2. Control Rollout Pace: - Use the 'maxSurge' and 'maxUnavailable' parameters to control the number of pods that can be unavailable or created during the update process. - For example, 'maxUnavailable: 0' ensures that no pods are unavailable during the update, while 'maxSurge: 1' allows for one extra pod to be created during the update. 3. Trigger Automatic Updates: - Use a 'Deployment's 'spec.template.spec.imagePullPolicy' to trigger updates automatically when a new image is available. - Set 'imagePullPolicy: Always' to force a pull of the image each time the deployment is updated. 4. Monitor Rollout Progress: - Use `kubectl get pods -l app=my-microservice` to monitor the rollout progress. - You can also use the `'kubectl rollout status deployment/my-microservice'` command to get detailed information about the rollout. 5. Use Liveness and Readiness Probes: - Define liveness and readiness probes to ensure that containers are healthy and ready to serve traffic. - The 'Deployment' will automatically restart unhealthy containers, while readiness probes will ensure that new pods are only considered ready for traffic once they are healthy. 6. Traffic Routing: - Use a 'Service' to expose your 'Deployment' to external clients. - Configure the 'Service' to use a 'LoadBalancer' or 'NodePort' to make the service accessible from outside the cluster. Note: This approach ensures a smooth rollout with minimal downtime. New pods are created with the new image, and traffic is gradually shifted to the updated pods while the old pods are gracefully terminated. The liveness and readiness probes ensure that only healthy pods receive traffic, and the automatic updates triggered by 'imagePullPolicy: Always' keep the service up-to-date.

NEW QUESTION # 117

Refer to Exhibit.



Task:

The pod for the Deployment named nosql in the craytish namespace fails to start because its container runs out of resources.

Update the nosql Deployment so that the Pod:

- 1) Request 160M of memory for its Container
- 2) Limits the memory to half the maximum memory constraint set for the crayfah name space.



Answer:

Explanation:

Solution:

```
candidate@node-1:~$ kubectl config use-context k8s
Switched to context "k8s".
candidate@node-1:~$ vim ~/chief-cardinal/nosql.yaml

file edit view terminal tabs help
--
apiVersion: apps/v1
kind: Deployment
metadata:
  name: nosql
  namespace: crayfish
  labels:
    app.kubernetes.io/name: nosql
    app.kubernetes.io/component: backend
spec:
  selector:
    matchLabels:
      app.kubernetes.io/name: nosql
      app.kubernetes.io/component: backend
  replicas: 1
  template:
    metadata:
      labels:
        app.kubernetes.io/name: nosql
        app.kubernetes.io/component: backend
    spec:
      containers:
        - name: mongo
          image: mongo:4.2
          args:
            - --bind ip
            - 0.0.0.0
          ports:
            - containerPort: 27017
```



```
File Edit View Terminal Tabs Help
- name: mongo
  image: mongo:4.2
  args:
    - --bind_ip
    - 0.0.0.0
  ports:
    - containerPort: 27017
  resources:
    requests:
      memory: "168Mi"
    limits:
      memory: "328Mi"

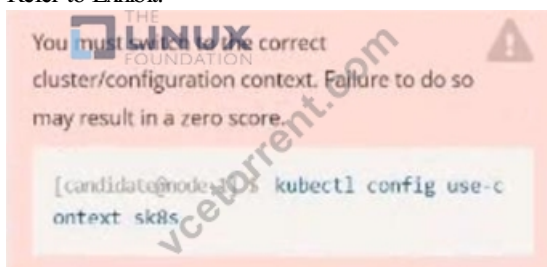
To: <any> (traffic not restricted by destination)
Policy Types: Ingress, Egress

name: default-deny
namespace: ckad00018
created on: 2022-09-24 04:27:37 +0000 UTC
labels: <none>
annotations: <none>
spec:
  PodSelector: <none> (Allowing the specific traffic to all pods in this namespace)
  Allowing ingress traffic:
    <none> (Selected pods are isolated for ingress connectivity)
  Not affecting egress traffic
  Policy Types: Ingress

candidate@node-1:~$ kubectl label pod ckad00018-newpod -n ckad00018 web-access=true
pod/ckad00018-newpod labeled
candidate@node-1:~$ kubectl label pod ckad00018-newpod -n ckad00018 db-access=true
pod/ckad00018-newpod labeled
candidate@node-1:~$ kubectl config use-context k8s
switched to context "k8s".
candidate@node-1:~$ vim ~/chief-cardinal/nosql.yaml
candidate@node-1:~$ vim ~/chief-cardinal/nosql.yaml
candidate@node-1:~$ kubectl apply -f ~/chief-cardinal/nosql.yaml
deployment.apps/nosql configured
candidate@node-1:~$ kubectl get pods -n crayfish
NAME                                READY   STATUS    RESTARTS   AGE
nosql-74ccc7d64-lkqlg               1/1     Running   0           3m2s
candidate@node-1:~$ kubectl get deploy -n crayfish
NAME    READY   UP-TO-DATE   AVAILABLE   AGE
nosql   1/1     1             1           7h16m
candidate@node-1:~$
```

NEW QUESTION # 118

Refer to Exhibit.



Task:

Create a Deployment named expose in the existing ckad00014 namespace running 6 replicas of a Pod.

Specify a single container using the ifcnf/nginx: 1.13.7 image Add an environment variable named NGINX_PORT with the value 8001 to the container then expose port 8001

Answer:

Explanation:

Solution:

```
candidate@node-1:~$ kubectl create deploy expose -n ckad00014 --image lfccncf/nginx:1.13.7 --dry-run=client -o yaml > d
p.yaml
candidate@node-1:~$
candidate@node-1:~$
candidate@node-1:~$
candidate@node-1:~$
candidate@node-1:~$
candidate@node-1:~$
candidate@node-1:~$
candidate@node-1:~$
candidate@node-1:~$
candidate@node-1:~$
```

```
File Edit View Terminal Tabs Help
apiVersion: apps/v1
kind: Deployment
metadata:
  creationTimestamp: null
  labels:
    app: expose
  name: expose
  namespace: ckad00014
spec:
  replicas: 6
  selector:
    matchLabels:
      app: expose
  strategy: {}
  template:
    metadata:
      creationTimestamp: null
      labels:
        app: expose
    spec:
      containers:
      - image: lfccncf/nginx:1.13.7
        name: nginx
        ports:
        - containerPort: 8001
      env:
      - name: NGINX_PORT
        value: "8001"
```

```
candidate@node-1:~$ kubectl config use-context k8s
switched to context "k8s".
candidate@node-1:~$ kubectl create deploy expose -n ckad00014 --image lfccncf/nginx:1.13.7 --dry-run=client -o yaml > d
p.yaml
candidate@node-1:~$
candidate@node-1:~$
candidate@node-1:~$
candidate@node-1:~$
candidate@node-1:~$
candidate@node-1:~$
candidate@node-1:~$
candidate@node-1:~$ vim dep.yaml
candidate@node-1:~$ kubectl create -f dep.yaml
deployment.apps/expose created
candidate@node-1:~$ kubectl get pods -n ckad00014
NAME                                READY   STATUS              RESTARTS   AGE
pose-85dd99d4d9-25675               0/1     ContainerCreating   0           6s
pose-85dd99d4d9-4fhcc               0/1     ContainerCreating   0           6s
pose-85dd99d4d9-fl7j                0/1     ContainerCreating   0           6s
pose-85dd99d4d9-tt6rm               0/1     ContainerCreating   0           6s
pose-85dd99d4d9-vjd8b               0/1     ContainerCreating   0           6s
pose-85dd99d4d9-vtzpq               0/1     ContainerCreating   0           6s
candidate@node-1:~$ kubectl get deploy -n ckad00014
NAME    READY   UP-TO-DATE   AVAILABLE   AGE
pose    6/6     6            6           15s
```

NEW QUESTION # 119

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