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

NEW QUESTION # 114

Exhibit:

Set configuration context:

```
[student@node-1] $ | kubectl config  
use-context k8s
```



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:

A screenshot of a terminal window titled "Web Terminal". The command "student@node-1:~\$ kubectl top pods -n cpu-stress" is run, and the output shows three pods: "max-load-98b9se" (CPU: 68m, Memory: 6Mi), "max-load-ab2d3s" (CPU: 21m, Memory: 6Mi), and "max-load-kipb9a" (CPU: 45m, Memory: 6Mi).

NAME	CPU(cores)	MEMORY(bytes)
max-load-98b9se	68m	6Mi
max-load-ab2d3s	21m	6Mi
max-load-kipb9a	45m	6Mi

- B. Solution:

A screenshot of a terminal window titled "Web Terminal". The command "student@node-1:~\$ kubectl top pods -n cpu-stress" is run, showing the same three pods as in the previous screenshot. Then, the command "student@node-1:~\$ echo 'max-load-98b9se' > /opt/KDOB0301/pod.txt" is run to write the pod name to the specified file.

Answer: B

NEW QUESTION # 115

Refer to Exhibit.

Set configuration context:

```
[student@node-1] $ | kubectl config  
use-context nk8s
```

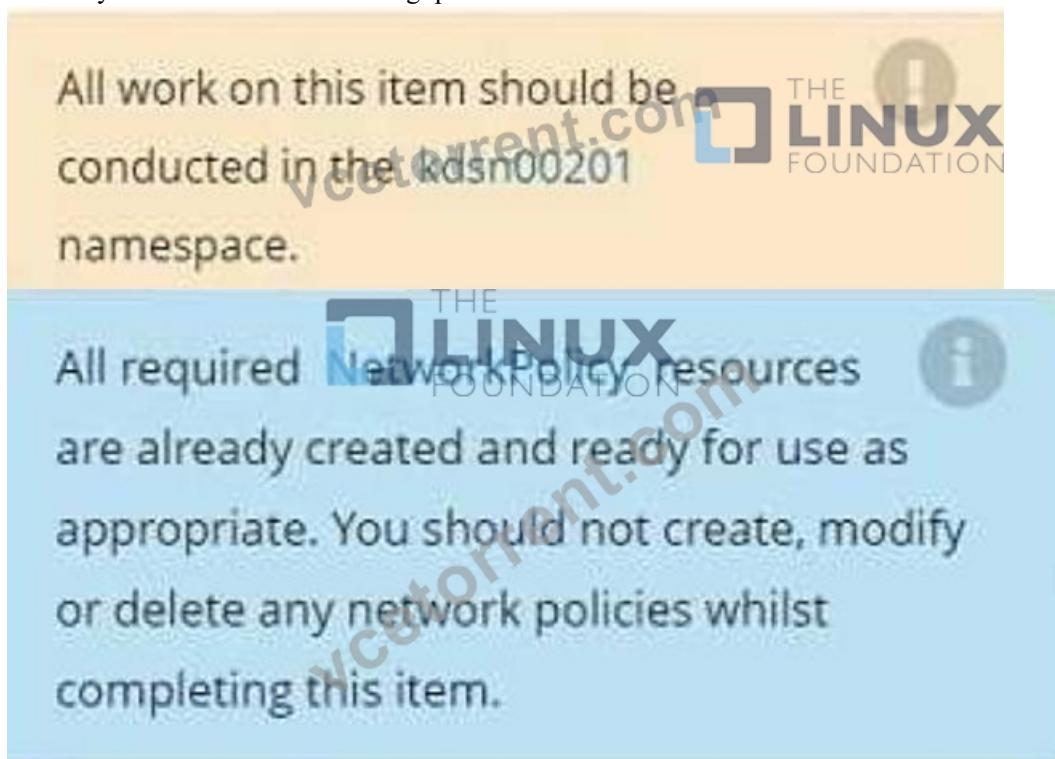
Set Configuration Context:

```
[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.



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
strategicRollingUpdate:
  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.

THE
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FOUNDATION
You must switch to the correct
cluster/configuration context. Failure to do so
may result in a zero score.

```
[candidate@node-1: ~]$ kubectl config use-c  
ontext sk8s
```

Task:

The pod for the Deployment named nosql in the crayfish 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 crayfish name space.

The nosql Deployment's manifest file can be found at
~/chief-cardinal/nosql.yaml

Answer:

Explanation:

Solution:

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

```
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: "160Mi"
    limits:
      memory: "320Mi"

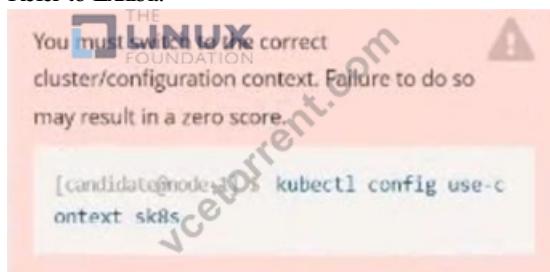
:WQ

File Edit View Terminal Tabs Help
To: <any> (traffic not restricted by destination)
Policy Types: Ingress, Egress

ame: default-deny
amespace: ckad00018
reated on: 2022-09-24 04:27:37 +0000 UTC
abels: <none>
nnotations: <none>
pec:
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
andidate@node-1:~$ kubectl label pod ckad00018-newpod -n ckad00018 web-access=true
od/ckad00018-newpod labeled
andidate@node-1:~$ kubectl label pod ckad00018-newpod -n ckad00018 db-access=true
od/ckad00018-newpod labeled
andidate@node-1:~$ kubectl config use-context k8s
witched to context "k8s".
andidate@node-1:~$ vim ~/chief-cardinal/nosql.yaml
andidate@node-1:~$ vim ~/chief-cardinal/nosql.yaml
andidate@node-1:~$ kubectl apply -f ~/chief-cardinal/nosql.yaml
ployment.apps/nosql configured
andidate@node-1:~$ kubectl get pods -n crayfish
AME READY STATUS RESTARTS AGE
osql-74cccf7d64-lkqlg 1/1 Running 0 3m2s
andidate@node-1:~$ kubectl get deploy -n crayfish
AME READY UP-TO-DATE AVAILABLE AGE
osql 1/1 1 1 7h16m
andidate@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 ifcncf/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 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> dep.yaml
candidate@node-1:~$ vim dep.yaml
candidate@node-1:~$ kubectl create -f dep.yaml
candidate@node-1:~$ kubectl get pods -n ckad00014
ME      READY   STATUS    RESTARTS   AGE
pose-85dd99d4d9-25675  0/1   ContainerCreating  0          6s
pose-85dd99d4d9-4fhcc  0/1   ContainerCreating  0          6s
pose-85dd99d4d9-fld7j  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
ME      READY   UP-TO-DATE   AVAILABLE   AGE
pose   6/6     6           6           15s
```

```
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> dep.yaml
candidate@node-1:~$ vim dep.yaml
candidate@node-1:~$ kubectl create -f dep.yaml
candidate@node-1:~$ kubectl get pods -n ckad00014
ME      READY   STATUS    RESTARTS   AGE
pose-85dd99d4d9-25675  0/1   ContainerCreating  0          6s
pose-85dd99d4d9-4fhcc  0/1   ContainerCreating  0          6s
pose-85dd99d4d9-fld7j  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
ME      READY   UP-TO-DATE   AVAILABLE   AGE
pose   6/6     6           6           15s
```

NEW QUESTION # 119

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