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Questions & Answers PDF

P-1

Linux Foundation

CKA Exam

Certified Kubernetes Administrator (CKA) Program



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Linux Foundation Certified Kubernetes Administrator (CKA) program is a globally recognized certification program for IT professionals who want to demonstrate their expertise in Kubernetes administration. Kubernetes is a popular open-source container orchestration platform that has rapidly become the preferred choice for cloud-native application development and deployment. With the increasing adoption of Kubernetes, the demand for certified Kubernetes administrators is also on the rise. The CKA program is designed to help IT professionals validate their skills and knowledge of Kubernetes and become certified Kubernetes administrators.

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Linux Foundation Certified Kubernetes Administrator (CKA) Program Exam Sample Questions (Q58-Q63):

NEW QUESTION # 58

Create an nginx pod and list the pod with different levels of verbosity See the solution below.

Answer:

Explanation:

```
// create a pod
kubectl run nginx --image=nginx --restart=Never --port=80
// List the pod with different verbosity
kubectl get po nginx --v=7
kubectl get po nginx --v=8
kubectl get po nginx --v=9
```

NEW QUESTION # 59

You have a deployment named 'web-app' with three replicas, exposing the application using a 'LoadBalancer' service. The application uses an internal database service named 'db-service' that is running as a 'ClusterIP' service. You need to configure the 'web-app' deployment to only allow traffic from the service' to its internal port (e.g., 5432).

Answer:

Explanation:

See the solution below with Step by Step Explanation.

Explanation:

Solution (Step by Step) :

1. Create a NetworkPolicy:

- Create a NetworkPolicy resource that allows traffic from the 'db-service' to the 'web-app' Deployment.

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

```
kind: NetworkPolicy
```

```
metadata:
```

```
  name: allow-db-to-web-app
```

```
  namespace:
```

```
spec:
```

```
  podSelector:
```

```
    matchLabels:
```

```
      app: web-app # Match the web-app Deployment label
```

```
  ingress:
```

```
    - from:
```

```
      - podSelector:
```

```
        matchLabels:
```

```
          app: db-service # Match the db-service label
```

```
    - ports:
```

```
      - port: 5432
```

2. Apply the NetworkPolicy: - Apply the YAML file using 'kubectl apply -f networkpolicy.yaml'. 3. Verify the NetworkPolicy: -

Check the status of the NetworkPolicy using 'kubectl get networkpolicies allow-db-to-web-app -n . 4. Test: - Ensure that the 'db-service' can communicate with the 'web-app' deployment on port 5432. - Attempt to connect to port 5432 on 'web-app' pods from outside the cluster or from other services/pods within the cluster that are not the 'db-service'. You should not be able to connect.

Note: Replace with the actual namespace where your deployments and services are located.

NEW QUESTION # 60

Score:7%



Context

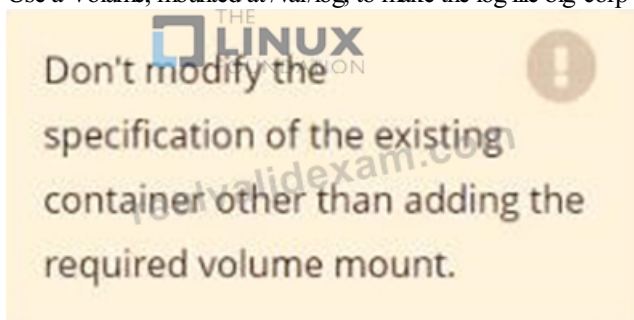
An existing Pod needs to be integrated into the Kubernetes built-in logging architecture (e. g. kubectl logs). Adding a streaming sidecar container is a good and common way to accomplish this requirement.

Task

Add a sidecar container named sidecar, using the busybox Image, to the existing Pod big-corp-app. The new sidecar container has to run the following command:

```
/bin/sh -c tail -n+1 -f /var/log/big-corp-app.log
```

Use a Volume, mounted at /var/log, to make the log file big-corp-app.log available to the sidecar container.



Answer:

Explanation:

Solution:

```
#
kubectl get pod big-corp-app -o yaml
#
apiVersion: v1
kind: Pod
metadata:
  name: big-corp-app
spec:
  containers:
  - name: big-corp-app
    image: busybox
    args:
    - /bin/sh
    - -c
    - >
      i=0;
      while true;
      do
        echo "$(date) INFO $i" >> /var/log/big-corp-app.log;
        i=$((i+1));
        sleep 1;
      done
  volumeMounts:
  - name: logs
    mountPath: /var/log
  - name: count-log-1
    image: busybox
    args: [/bin/sh, -c, 'tail -n+1 -f /var/log/big-corp-app.log']
```

```
volumeMounts:
- name: logs
  mountPath: /var/log
volumes:
- name: logs
  emptyDir: {
  }
#
kubectl logs big-corp-app -c count-log-1
```

NEW QUESTION # 61

Create a file:

/opt/KUCC00302/kucc00302.txt that lists all pods that implement service baz in namespace development.

The format of the file should be one pod name per line.

Answer:

Explanation:

solution



```
root@node-1:~#
root@node-1:~# k describe svc baz -n development
Name:          baz
Namespace:     development
Labels:        <none>
Annotations:   <none>
Selector:      name=foo
Type:          ClusterIP
IP:            10.104.252.175
Port:          <unset> 80/TCP
TargetPort:    9376/TCP
Endpoints:     10.244.1.5:9376,10.244.2.3:9376,10.244.2.6:9376
Session Affinity: None
Events:        <none>
root@node-1:~# k get po -l name=foo -n development
NAME                                READY   STATUS    RESTARTS   AGE
pod-kucc00302-847878                1/1     Running   0           6h35m
pod-kucc00302-983457                1/1     Running   0           6h35m
pod-kucc00302-985953                1/1     Running   0           6h35m
root@node-1:~# k get po -l name=foo -n development -o NAME
pod/pod-kucc00302-847878
pod/pod-kucc00302-983457
pod/pod-kucc00302-985953
root@node-1:~# k get po -l name=foo -n development -o NAME > /opt/KUCC00302/kucc00302.txt
root@node-1:~# vim /opt/KUCC00302/kucc00302.txt
```


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